

Item #	Description	Unit	Quantity	Unit Price	Amount			
Backbone Roadway System								
1	Mobilization	JOB	1	\$50,000.00	\$50,000			
2	Excavation	CY	0	\$7.00	\$0			
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	0	\$1.80	\$0			
4	16" AB (assumes a Traffic Index of 9)	SF	0	\$2.25	\$0			
5	5" AC (assumes a Traffic Index of 9)	SF	0	\$2.70	\$0			
6	18" AB (assumes a Traffic Index of 11)	SF	0	\$2.50	\$0			
7	7" AC (assumes a Traffic Index of 11)	SF	0	\$4.00	\$0			
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	\$0			
9	4" AB Shoulder (2' width)	SF	2390	\$1.20	\$2,900			
10	Subgrade Street Prep (Street)	SF	0	\$0.25	\$0			
11	Subgrade Prep (Curb & Gutter)	SF	0	\$0.30	\$0			
12	Subgrade Prep (AB Shoulder)	SF	2390	\$0.30	\$700			
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	\$0			
14	Signing and Striping (36' ROW)*	LF	598	\$15.00	\$9,000			
15	Traffic Signals	EA	0	\$320,000.00	\$0			
16	Future Traffic Signal	EA	0	\$275,000.00	\$0			
17	Signalized Intersection	EA	0	\$900,000.00	\$0			
18	Sidewalk, Concrete	SF	0	\$6.00	\$0			
19	Roundabout	EA	0	\$100,000.00	\$0			
20	Joint Trench	<u>LF</u>	0	\$115.00	\$0			
21	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	\$0			
22	Type 5 Curb Median	LF OF	0	\$12.00	\$0			
23	Median Landscaping	SF SF	0	\$4.50	\$0			
24 25	Frontage Landscaping Signal Conduit and Wiring	EA	0	\$4.50 \$75,000.00	\$0 \$0			
26	Curb and Gutter	LF	0	\$73,000.00	\$0			
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	\$0			
28	Irrigation Sleeves	LF	45	\$15.00	\$700			
29	Street Lights (every 150 LF)	EA	8	\$6,000.00	\$48,000			
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	\$0			
31	Sawcut and Pavement Removal	LF	1195	\$3.00	\$3,600			
32	Reconstruct Ditches	LF	1195	\$3.00	\$3,600			
33	Erosion Control	LF	1195	\$25.00	\$29,900			
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	\$0			
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	\$0			
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	\$0			
37	Grind and Remove Pavement	SF	0	\$3.00	\$0			
38	Grind and Overlay	SF	9560	\$2.00	\$19,100			
39	Retrofit Utilities	EA	0	\$3,000.00	\$0			
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	\$0			
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	\$0			
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	\$0			
43	Golf Course Fence and Netting	LF	0	\$133.00	\$0			
44	Split Rail Fencing	LF	0	\$45.00	\$0			
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	\$0			
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	\$0			
47	Traffic Control	JOB	1	\$100,000.00	\$100,000			
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	\$0			
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	\$0			
	Construction Total:				\$267,500			

<sup>\*</sup> Cost per linear foot of roadway.

\*\* Cost per linear foot of roadway.

Contingency Based upon Hard Costs (15/): \$40,100

\*\* ROW Acquisition includes mapping, purchasing the land,

Soft Costs Contingency (17/): \$45,500

TOTAL CIRCULATION \$353,100

<sup>\*\*\*</sup> ROW Acquisition includes mapping.



**Engineer's Opinion of Costs** Village 1 - Backbone Roadway System Phase 3 McBean Park Drive 7

					Amount
Backbone	e Roadway System				
1	Mobilization	JOB	1	\$50,000.00	\$50,000
2	Excavation	CY	0	\$7.00	\$(
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	0	\$1.80	\$1
4	16" AB (assumes a Traffic Index of 9)	SF	0	\$2.25	\$(
5	5" AC (assumes a Traffic Index of 9)	SF	0	\$2.70	\$(
6	18" AB (assumes a Traffic Index of 11)	SF	0	\$2.50	\$(
7	7" AC (assumes a Traffic Index of 11)	SF	0	\$4.00	\$(
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	\$(
9	4" AB Shoulder (2' width)	SF	7340	\$1.20	\$8,800
10	Subgrade Street Prep (Street)	SF	0	\$0.25	\$(
11	Subgrade Prep (Curb & Gutter)	SF	0	\$0.30	\$(
12	Subgrade Prep (AB Shoulder)	SF	7340	\$0.30	\$2,200
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	\$(
14	Signing and Striping (36' ROW)*	LF	1835	\$15.00	\$27,500
15	Traffic Signals	EA	0	\$320,000.00	\$(
16	Future Traffic Signal	EA	0	\$275,000.00	\$(
17	Signalized Intersection	EA	0	\$900,000.00	\$(
18	Sidewalk, Concrete	SF	0	\$6.00	\$(
19	Roundabout	EA	0	\$100,000.00	\$(
20	Joint Trench	LF	0	\$115.00	\$(
21	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	\$(
22	Type 5 Curb Median	LF	0	\$12.00	\$(
23	Median Landscaping	SF	0	\$4.50	\$(
24	Frontage Landscaping	SF	0	\$4.50	\$(
25	Signal Conduit and Wiring	EA	0	\$75,000.00	\$(
26	Curb and Gutter	LF	0	\$27.00	\$(
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	\$(
28	Irrigation Sleeves	LF	0	\$15.00	\$(
29	Street Lights (every 150 LF)	EA	12	\$6,000.00	\$72,000
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	\$(
31	Sawcut and Pavement Removal	LF	3670	\$3.00	\$11,000
32	Reconstruct Ditches	LF	3670	\$3.00	\$11,000
33	Erosion Control	LF	3670	\$25.00	\$91,800
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	\$(
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	\$(
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	\$(
37	Grind and Remove Pavement	SF	0	\$3.00	\$(
38	Grind and Overlay	SF	29360	\$2.00	\$58,700
39	Retrofit Utilities	EA EA	0	\$3,000.00	\$(
40	Dewatering - Ferrari Ranch Road			\$25,000.00	\$(
41	Dewatering - Oak Tree near So. Ingram Slough	EA EA	0	\$50,000.00	\$(
42	Dewatering - Oak Tree near new lake	LF	0	\$75,000.00	\$(
43	Golf Course Fence and Netting		0	\$133.00	\$(
44	Split Rail Fencing	LF JOB	0	\$45.00	\$(
45	FRR Supplemental Topo + Aerial Topo		0	\$12,500.00	\$1
46	Remediation Trench and Monitoring	JOB	ł	\$1,000,000.00	\$100.000
47	Traffic Control	JOB	1	\$100,000.00	\$100,000
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	\$1
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	\$(

<sup>\*</sup> Cost per linear foot of roadway. Contingency Based upon Hard Costs (15/): Soft Costs Contingency (17/):

\*\*\* ROW Acquisition includes mapping. **TOTAL CIRCULATION** \$571,600

\$65,000

\$73,600

<sup>\*\*</sup> ROW Acquisition includes mapping, purchasing the land,



**Engineer's Opinion of Costs** Village 1 - Backbone Roadway System Phase 3 State Route 193 1

Item #	Description	Unit	Quantity	Unit Price	Amount
Backbo	one Roadway System				
1	Mobilization	JOB	0.5	\$50,000.00	\$25,000
2	Excavation	CY	80	\$7.00	\$600
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	0	\$1.80	\$0
4	16" AB (assumes a Traffic Index of 9)	SF	0	\$2.25	\$0
5	5" AC (assumes a Traffic Index of 9)	SF	0	\$2.70	\$0
6	18" AB (assumes a Traffic Index of 11)	SF	1083	\$2.50	\$2,700
7	7" AC (assumes a Traffic Index of 11)	SF	1083	\$4.00	\$4,300
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	\$0
9	4" AB Shoulder (2' width)	SF	1520	\$1.20	\$1,800
10	Subgrade Street Prep (Street)	SF	1083	\$0.25	\$300
11	Subgrade Prep (Curb & Gutter)	SF	0	\$0.30	\$0
12	Subgrade Prep (AB Shoulder)	SF	0	\$0.30	\$0
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	\$0
14	Signing and Striping (36' ROW)*	LF	380	\$15.00	\$5,700
15	Traffic Signals	EA	0	\$320,000.00	\$0
16	Future Traffic Signal	EA	0	\$275,000.00	\$0
17	Signalized Intersection	EA	0	\$900,000.00	\$0
18	Sidewalk, Concrete	SF	0	\$6.00	\$0
19	Roundabout	EA	0	\$100,000.00	\$0
20	Joint Trench	LF	0	\$115.00	\$0
21	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	\$0
22	Type 5 Curb Median	LF	0	\$12.00	\$0
23	Median Landscaping	SF	0	\$4.50	\$0
24	Frontage Landscaping	SF	0	\$4.50	\$0
25	Signal Conduit and Wiring	EA	0	\$75,000.00	\$0
26	Curb and Gutter	LF	0	\$27.00	\$0
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	\$0
28	Irrigation Sleeves	LF	75	\$15.00	\$1,100
29	Street Lights (every 150 LF)	EA	5	\$6,000.00	\$30,000
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	\$0,000
31	Sawcut and Pavement Removal	LF	760	\$3.00	\$2,300
32	Reconstruct Ditches	LF	760	\$3.00	\$2,300
33	Erosion Control	LF	760	\$25.00	\$19,000
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	\$15,000
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	\$0
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	\$0
37	Grind and Remove Pavement	SF	0	\$3.00	\$0
38	Grind and Overlay	SF	6080	\$2.00	\$12,200
39	Retrofit Utilities	EA	0	\$3,000.00	\$12,288
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	\$0
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	\$0
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	\$0
43	Golf Course Fence and Netting	LF	0	\$133.00	\$0
44	Split Rail Fencing	LF	0	\$45.00	\$0
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	\$0
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	\$(
47	Traffic Control	JOB	0.5	\$100,000.00	\$50,000
48	Traffic Control Oak Tree Lane	JOB	0.3	\$250,000.00	\$30,000
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	\$(
49		LA	1 0	\$5,500,000.00	\$157,300
	Construction Total:				\$157,30

<sup>\*</sup> Cost per linear foot of roadway. Contingency Based upon Hard Costs (15/): \*\* ROW Acquisition includes mapping, purchasing the land, Soft Costs Contingency (17/):

\*\*\* ROW Acquisition includes mapping.

**TOTAL CIRCULATION** \$207,600

\$23,600

\$26,700



Engineer's Opinion of Costs Village 1 - Backbone Roadway System Phase 3 State Route 193 2

Item #	Description	Unit	Quantity	Unit Price	Amount		
Backbone Roadway System							
1	Mobilization	JOB	0.5	\$50,000.00	\$25,000		
2	Excavation	CY	625	\$7.00	\$4,400		
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	0	\$1.80	\$0		
4	16" AB (assumes a Traffic Index of 9)	SF	0	\$2.25	\$0		
5	5" AC (assumes a Traffic Index of 9)	SF	0	\$2.70	\$0		
6	18" AB (assumes a Traffic Index of 11)	SF	8444	\$2.50	\$21,100		
7	7" AC (assumes a Traffic Index of 11)	SF	8444	\$4.00	\$33,800		
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	\$0		
9	4" AB Shoulder (2' width)	SF	2680	\$1.20	\$3,200		
10	Subgrade Street Prep (Street)	SF	8444	\$0.25	\$2,100		
11	Subgrade Prep (Curb & Gutter)	SF	0	\$0.30	\$0		
12	Subgrade Prep (AB Shoulder)	SF	2680	\$0.30	\$800		
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	\$0		
14	Signing and Striping (36' ROW)*	LF	670	\$15.00	\$10,100		
15	Traffic Signals	EA	0	\$320,000.00	\$0		
16	Future Traffic Signal	EA	0	\$275,000.00	\$0		
17	Signalized Intersection	EA	0	\$900,000.00	\$0		
18	Sidewalk, Concrete	SF	0	\$6.00	\$0		
19	Roundabout	EA	0	\$100,000.00	\$0		
20	Joint Trench	LF	0	\$115.00	\$0		
21	Underground Existing Utilities in Joint Trench	<u>LF</u> LF	0	\$360.00	\$0		
22	Type 5 Curb Median	SF	0	\$12.00	\$0 \$0		
23 24	Median Landscaping Frontage Landscaping	SF	0	\$4.50 \$4.50	\$0 \$0		
25	Signal Conduit and Wiring	EA	0	\$75,000.00	\$0 \$0		
26	Curb and Gutter	LF	0	\$27.00	\$0		
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	\$0 \$0		
28	Irrigation Sleeves	LF	20	\$15.00	\$300		
29	Street Lights (every 150 LF)	EA	9	\$6,000.00	\$54,000		
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	\$0		
31	Sawcut and Pavement Removal	LF	1340	\$3.00	\$4,000		
32	Reconstruct Ditches	LF	1340	\$3.00	\$4,000		
33	Erosion Control	LF	1340	\$25.00	\$33,500		
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	\$0		
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	\$0		
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	\$0		
37	Grind and Remove Pavement	SF	0	\$3.00	\$0		
38	Grind and Overlay	SF	10720	\$2.00	\$21,400		
39	Retrofit Utilities	EA	0	\$3,000.00	\$0		
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	\$0		
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	\$0		
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	\$0		
43	Golf Course Fence and Netting	LF	0	\$133.00	\$0		
44	Split Rail Fencing	LF	0	\$45.00	\$0		
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	\$0		
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	\$0		
47	Traffic Control	JOB	0.5	\$100,000.00	\$50,000		
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	\$0		
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	\$0		
	Construction Total:				\$267,700		

<sup>\*</sup> Cost per linear foot of roadway.

\*\* Cost per linear foot of roadway.

Contingency Based upon Hard Costs (15/): \$40,200

\*\* ROW Acquisition includes mapping, purchasing the land,

Soft Costs Contingency (17/): \$45,500

TOTAL CIRCULATION \$353,400

<sup>\*\*\*</sup> ROW Acquisition includes mapping.



Engineer's Opinion of Costs Village 1 - Backbone Roadway System Phase 3 State Route 193 6

	State Route 193 6				
Item #	Description	Unit	Quantity	Unit Price	Amount
<b>Backb</b>	one Roadway System				
1	Mobilization	JOB	1	\$50,000.00	\$50,000
2	Excavation	CY	1400	\$7.00	\$9,700
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	0	\$1.80	\$0
4	16" AB (assumes a Traffic Index of 9)	SF	0	\$2.25	\$0
5	5" AC (assumes a Traffic Index of 9)	SF	0	\$2.70	\$0
6	18" AB (assumes a Traffic Index of 11)	SF	18731	\$2.50	\$46,800
7	7" AC (assumes a Traffic Index of 11)	SF	18731	\$4.00	\$74,900
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	\$0
9	4" AB Shoulder (2' width)	SF	1860	\$1.20	\$2,200
10	Subgrade Street Prep (Street)	SF	18731	\$0.25	\$4,700
11	Subgrade Prep (Curb & Gutter)	SF	0	\$0.30	\$0
12	Subgrade Prep (AB Shoulder)	SF	1860	\$0.30	\$600
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	\$0
14	Signing and Striping (36' ROW)*	LF	465	\$15.00	\$7,000
15	Traffic Signals	EA	0	\$320,000.00	\$0
16	Future Traffic Signal	EA	0	\$275,000.00	\$0
17	Signalized Intersection	EA	0	\$900,000.00	\$0
18	Sidewalk, Concrete	SF	0	\$6.00	\$0
19	Roundabout	EA	0	\$100,000.00	\$0
20	Joint Trench	LF	0	\$115.00	\$0
21	Underground Existing Utilities in Joint Trench	LF	930	\$360.00	\$334,800
22	Type 5 Curb Median	LF	0	\$12.00	\$0
23	Median Landscaping	SF	0	\$4.50	\$0
24	Frontage Landscaping	SF	0	\$4.50	\$0
25	Signal Conduit and Wiring	EA	0	\$75,000.00	\$0
26	Curb and Gutter	LF	0	\$27.00	\$0
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	\$0
28	Irrigation Sleeves	LF	60	\$15.00	\$900
29	Street Lights (every 150 LF)	EA	6	\$6,000.00	\$36,000
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	\$0
31	Sawcut and Pavement Removal	LF	930	\$3.00	\$2,800
32	Reconstruct Ditches	LF	930	\$3.00	\$2,800
33	Erosion Control	LF	930	\$25.00	\$23,300
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	\$0
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	\$0
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	\$0
37	Grind and Remove Pavement	SF	0	\$3.00	\$0
38	Grind and Overlay	SF	7440	\$2.00	\$14,900
39	Retrofit Utilities	EA	0	\$3,000.00	\$0
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	\$0
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	\$0
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	\$0
43	Golf Course Fence and Netting	LF	0	\$133.00	\$0
44	Split Rail Fencing	LF	0	\$45.00	\$0
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	\$0
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	\$0
47	Traffic Control	JOB	1	\$100,000.00	\$100,000
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	\$0
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	\$0
73	Construction Total:		<u> </u>	Ç3,300,000.00	\$711,400

<sup>\*</sup> Cost per linear foot of roadway.

Contingency Based upon Hard Costs (15/): \$106,700 Soft Costs Contingency (17/): \$120,900

TOTAL CIRCULATION \$939,000

<sup>\*\*</sup> ROW Acquisition includes mapping, purchasing the land,

<sup>\*\*\*</sup> ROW Acquisition includes mapping.



Engineer's Opinion of Costs
Village 1 - Backbone Roadway System
Phase 3 Oak Tree Lane 3

Item #	Description	Unit	Quantity	Unit Price	Amount			
Backbone Roadway System								
1	Mobilization	JOB	1	\$50,000.00	\$50,000			
2	Excavation	CY	0	\$7.00	\$0,000			
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	22320	\$1.80	\$40,200			
4	16" AB (assumes a Traffic Index of 9)	SF	54000	\$2.25	\$121,500			
5	5" AC (assumes a Traffic Index of 9)	SF	54000	\$2.70	\$145,800			
6	18" AB (assumes a Traffic Index of 11)	SF	0	\$2.50	\$0			
7	7" AC (assumes a Traffic Index of 11)	SF	0	\$4.00	\$0			
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	\$0			
9	4" AB Shoulder (2' width)	SF	0	\$1.20	\$0			
10	Subgrade Street Prep (Street)	SF	54000	\$0.25	\$13,500			
11	Subgrade Prep (Curb & Gutter)	SF	27000	\$0.30	\$8,100			
12	Subgrade Prep (AB Shoulder)	SF	0	\$0.30	\$0			
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	\$0			
14	Signing and Striping (36' ROW)*	LF	1500	\$15.00	\$22,500			
15	Traffic Signals	EA	0	\$320,000.00	\$0			
16	Future Traffic Signal	EA	0	\$275,000.00	\$0			
17	Signalized Intersection	EA	0	\$900,000.00	\$0			
18	Sidewalk, Concrete	SF	13320	\$6.00	\$79,900			
19	Roundabout	EA	0	\$100,000.00	\$0			
20	Joint Trench	LF	1500	\$115.00	\$172,500			
21	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	\$0			
22	Type 5 Curb Median	LF	3000	\$12.00	\$36,000			
23	Median Landscaping	SF	18000	\$4.50	\$81,000			
24	Frontage Landscaping	SF	0	\$4.50	\$0			
25	Signal Conduit and Wiring	EA	0	\$75,000.00	\$0			
26	Curb and Gutter	LF	3000	\$27.00	\$81,000			
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	\$0			
28	Irrigation Sleeves	LF	0	\$15.00	\$0			
29	Street Lights (every 150 LF)	EA	10	\$6,000.00	\$60,000			
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	\$0			
31	Sawcut and Pavement Removal	LF	0	\$3.00	\$0			
32	Reconstruct Ditches	LF	0	\$3.00	\$0			
33	Erosion Control	LF	1500	\$25.00	\$37,500			
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	\$0			
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	\$0			
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	\$0			
37	Grind and Remove Pavement	SF	0	\$3.00	\$0			
38	Grind and Overlay	SF	0	\$2.00	\$0			
39	Retrofit Utilities	EA	0	\$3,000.00	\$0			
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	\$0			
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	\$0			
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	\$0			
43	Golf Course Fence and Netting	LF	0	\$133.00	\$0			
44	Split Rail Fencing	LF	0	\$45.00	\$0			
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	\$0			
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	\$0			
47	Traffic Control	JOB	0	\$100,000.00	\$0			
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	\$0			
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	\$0			
	Construction Total:				\$949,500			

<sup>\*</sup> Cost per linear foot of roadway.

Contingency Based upon Hard Costs (15/): \$142,400

Soft Costs Contingency (17/): \$161,400

TOTAL CIRCULATION \$1,253,300

 $<sup>\</sup>ensuremath{^{**}}$  ROW Acquisition includes mapping, purchasing the land,

<sup>\*\*\*</sup> ROW Acquisition includes mapping.



Engineer's Opinion of Costs Village 1 - Backbone Roadway System Phase 3 Oak Tree Lane 10

Item #	Description	Unit	Quantity	Unit Price	Amount
Backbo	one Roadway System				
1	Mobilization	JOB	0.5	\$50,000.00	\$25,000
2	Excavation	CY	0.5	\$7.00	\$25,000
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	0	\$1.80	\$(
4	16" AB (assumes a Traffic Index of 9)	SF	103020	\$2.25	\$231,800
5	5" AC (assumes a Traffic Index of 9)	SF	103020	\$2.70	\$278,200
6	18" AB (assumes a Traffic Index of 11)	SF	0	\$2.50	\$270,200
7	7" AC (assumes a Traffic Index of 11)	SF	0	\$4.00	\$(
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	\$(
9	4" AB Shoulder (2' width)	SF	0	\$1.20	\$(
10	Subgrade Street Prep (Street)	SF	103020	\$0.25	\$25,700
11	Subgrade Prep (Curb & Gutter)	SF	54540	\$0.30	\$16,300
12	Subgrade Prep (AB Shoulder)	SF	0	\$0.30	\$10,300
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	\$0
14	Signing and Striping (36' ROW)*	LF	3030	\$15.00	\$45,300
15	Traffic Signals	EA	0	\$320,000.00	\$43,300
16	Future Traffic Signal	EA	0	\$275,000.00	\$0
17	Signalized Intersection	EA	0	\$900,000.00	\$0
18	Sidewalk, Concrete	SF	36360	\$6.00	\$218,100
19	Roundabout	EA	0	\$100,000.00	\$210,100
20	Joint Trench	LF	3030	\$100,000.00	\$348,400
21		LF	3030	\$360.00	\$348,400 \$0
22	Underground Existing Utilities in Joint Trench	LF	+		
	Type 5 Curb Median	SF	6060	\$12.00	\$72,700
23	Median Landscaping		29160	\$4.50	\$131,300
24	Frontage Landscaping	SF	0	\$4.50	\$0 \$0
25	Signal Conduit and Wiring	EA	0	\$75,000.00	
26	Curb and Gutter	LF	6060	\$27.00	\$163,700
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	\$0
28	Irrigation Sleeves	LF EA	0	\$15.00	\$0
29	Street Lights (every 150 LF)	EA	20	\$6,000.00	\$120,000
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	\$0
31	Sawcut and Pavement Removal	LF	0	\$3.00	\$0
32	Reconstruct Ditches	LF	0	\$3.00	\$0
33	Erosion Control	LF	3030	\$25.00	\$75,600
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	\$0
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	\$0
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	\$0
37	Grind and Remove Pavement	SF	0	\$3.00	\$0
38	Grind and Overlay	SF	0	\$2.00	\$0
39	Retrofit Utilities	EA	0	\$3,000.00	\$0
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	\$0
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	\$0
42	Dewatering - Oak Tree near new lake	EA	1	\$75,000.00	\$75,000
43	Golf Course Fence and Netting	LF	0	\$133.00	\$0
44	Split Rail Fencing	LF	1470	\$45.00	\$66,200
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	\$(
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	\$(
47	Traffic Control	JOB	0	\$100,000.00	\$(
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	\$(
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	\$(
<u> </u>	Construction Total:				\$1,893,30

<sup>\*</sup> Cost per linear foot of roadway.

Contingency Based upon Hard Costs (15/): \$284,000

Soft Costs Contingency (17/): \$321,900

TOTAL CIRCULATION \$2,499,200

 $<sup>\</sup>ensuremath{^{**}}$  ROW Acquisition includes mapping, purchasing the land,

<sup>\*\*\*</sup> ROW Acquisition includes mapping.



Engineer's Opinion of Costs
Village 1 - Backbone Roadway System
Phase 3 Oak Tree Lane 11

Item #	Description	Unit	Quantity	Unit Price	Amount
Backbo	one Roadway System				
1	Mobilization	JOB	0.5	\$50,000.00	\$25,000
2	Excavation	CY	0	\$7.00	\$0
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	17370	\$1.80	\$31,300
4	16" AB (assumes a Traffic Index of 9)	SF	32810	\$2.25	\$73,800
5	5" AC (assumes a Traffic Index of 9)	SF	32810	\$2.70	\$88,600
6	18" AB (assumes a Traffic Index of 11)	SF	0	\$2.50	\$0
7	7" AC (assumes a Traffic Index of 11)	SF	0	\$4.00	\$0
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	\$(
9	4" AB Shoulder (2' width)	SF	0	\$1.20	\$0
10	Subgrade Street Prep (Street)	SF	32810	\$0.25	\$8,200
11	Subgrade Prep (Curb & Gutter)	SF	17370	\$0.30	\$5,200
12	Subgrade Prep (AB Shoulder)	SF	0	\$0.30	\$0
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	\$0
14	Signing and Striping (36' ROW)*	LF	965	\$15.00	\$14,500
15	Traffic Signals	EA	0	\$320,000.00	\$0
16	Future Traffic Signal	EA	0	\$275,000.00	\$0
17	Signalized Intersection	EA	0	\$900,000.00	\$0
18	Sidewalk, Concrete	SF	11580	\$6.00	\$69,500
19	Roundabout	EA	0	\$100,000.00	\$0
20	Joint Trench	LF	965	\$115.00	\$111,000
21	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	\$0
22	Type 5 Curb Median	LF	1930	\$12.00	\$23,200
23	Median Landscaping	SF	11580	\$4.50	\$52,100
24	Frontage Landscaping	SF	0	\$4.50	\$0
25	Signal Conduit and Wiring	EA	1	\$75,000.00	\$75,000
26	Curb and Gutter	LF	1930	\$27.00	\$52,100
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	\$0
28	Irrigation Sleeves	LF	0	\$15.00	\$0
29	Street Lights (every 150 LF)	EA	6	\$6,000.00	\$36,000
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	\$0
31	Sawcut and Pavement Removal	LF	0	\$3.00	\$0
32	Reconstruct Ditches	<u>LF</u>	0	\$3.00	\$0
33	Erosion Control	LF	965	\$25.00	\$24,100
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	\$0
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	\$0
36	ROW Acquisition (Oak Tree Lane - South) *** Grind and Remove Pavement	LS	0	\$50,000.00	\$0
37		SF	_	\$3.00	\$0
38 39	Grind and Overlay Retrofit Utilities	SF EA	0	\$2.00	\$0 \$0
40		EA EA	0	\$3,000.00	\$C \$0
40	Dewatering - Ferrari Ranch Road  Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$25,000.00 \$50,000.00	
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$75,000.00	\$0 \$0
	Golf Course Fence and Netting	LF	850	\$75,000.00	\$113,100
43 44	Split Rail Fencing	LF LF	850	\$133.00	\$113,100
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$45.00	\$(
46	Remediation Trench and Monitoring	JOB	0	\$12,500.00	\$(
47	Traffic Control	JOB	0	\$1,000,000.00	\$(
47	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	\$( \$(
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	\$(
43	,	LA	1 0	00.000,000,000	\$802,700
	Construction Total:				9002,700

<sup>\*</sup> Cost per linear foot of roadway.

Contingency Based upon Hard Costs (15/): \$120,400

Soft Costs Contingency (17/): \$136,500

TOTAL CIRCULATION \$1,059,600

<sup>\*\*</sup> ROW Acquisition includes mapping, purchasing the land,

<sup>\*\*\*</sup> ROW Acquisition includes mapping.



Engineer's Opinion of Costs
Village 1 - Backbone Roadway System
Phase 4 Summary

Item #	Description	Unit	Quantity	Unit Price	Amount		
Backb	one Roadway System						
1	Mobilization	JOB	6	\$50,000.00	\$300,000		
2	Excavation	CY	1100	\$7.00	\$7,700		
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	83560	\$1.80	\$150,400		
4	16" AB (assumes a Traffic Index of 9)	SF	213000	\$2.25	\$479,300		
5	5" AC (assumes a Traffic Index of 9)	SF	213000	\$2.70	\$575,100		
6	18" AB (assumes a Traffic Index of 11)	SF	5916	\$2.50	\$14,800		
7	7" AC (assumes a Traffic Index of 11)	SF	5916	\$4.00	\$23,700		
8	Decomposed Granite Trail (4' width, 4" thick)	SF	10760	\$1.80	\$19,400		
9	4" AB Shoulder (2' width)	SF	1520	\$1.20	\$1,800		
10	Subgrade Street Prep (Street)	SF	218916	\$0.25	\$54,700		
11	Subgrade Prep (Curb & Gutter)	SF	83560	\$0.30	\$25,100		
12	Subgrade Prep (AB Shoulder)	SF	1520	\$0.30	\$500		
13	Subgrade Prep (DG Trail)	SF	10760	\$0.30	\$3,200		
14	Signing and Striping (36' ROW)*	LF	5780	\$15.00	\$86,700		
15	Traffic Signals	EA	0	\$320,000.00	\$0		
16	Future Traffic Signal	EA	0	\$275,000.00	\$0		
17	Signalized Intersection	EA	0	\$900,000.00	\$0		
18	Sidewalk, Concrete	SF	53440	\$6.00	\$320,600		
19	Roundabout	EA	1	\$100,000.00 \$115.00	\$100,000		
20	Joint Trench	LF LF	6365	,	\$732,000		
21 22	Underground Existing Utilities in Joint Trench	LF LF	7615	\$360.00 \$12.00	\$0 \$91,400		
23	Type 5 Curb Median Median Landscaping	SF	7615 58535				
23	Frontage Landscaping	SF	0	\$4.50 \$4.50	\$263,400 \$0		
25	Signal Conduit and Wiring	EA	0	\$75,000.00	\$0 \$0		
26	Curb and Gutter	LF	10040	\$73,000.00	\$271,100		
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	\$271,100		
28	Irrigation Sleeves	LF	0	\$15.00	\$0		
29	Street Lights (every 150 LF)	EA	48	\$6,000.00	\$288,000		
30	Sawcut and Pavement Removal Median	LF	3355	\$20.00	\$67,100		
31	Sawcut and Pavement Removal	LF	2595	\$3.00	\$7,800		
32	Reconstruct Ditches	LF	760	\$3.00	\$2,300		
33	Erosion Control	LF	8960	\$25.00	\$224,000		
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	\$0		
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	\$0		
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	\$0		
37	Grind and Remove Pavement	SF	0	\$3.00	\$0		
38	Grind and Overlay	SF	109880	\$2.00	\$219,800		
39	Retrofit Utilities	EA	0	\$3,000.00	\$0		
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	\$0		
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	\$0		
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	\$0		
43	Golf Course Fence and Netting	LF	0	\$133.00	\$0		
44	Split Rail Fencing	LF	0	\$45.00	\$0		
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	\$0		
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	\$0		
47	Traffic Control	JOB	3	\$100,000.00	\$300,000		
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	\$0		
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	\$0		
	Construction Total:				\$4,629,900		

<sup>\*</sup> Cost per linear foot of roadway.

Contingency Based upon Hard Costs (15/): \$694,500 Soft Costs Contingency (17/): \$787,100

<sup>\*\*</sup> ROW Acquisition includes mapping, purchasing the land,

<sup>\*\*\*</sup> ROW Acquisition includes mapping.



Engineer's Opinion of Costs
Village 1 - Backbone Roadway System
Phase 4 McBean Park Drive 8

Item # Description Unit Quantity Unit Price Amount

Item #	Description	Unit	Quantity	Unit Price	Amount
Backbo	ne Roadway System				
1	Mobilization	JOB	1	\$50,000.00	\$50,000
2	Excavation	CY	0	\$7.00	\$0
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	0	\$1.80	\$0
4	16" AB (assumes a Traffic Index of 9)	SF	0	\$2.25	\$0
5	5" AC (assumes a Traffic Index of 9)	SF	0	\$2.70	\$0
6	18" AB (assumes a Traffic Index of 11)	SF	0	\$2.50	\$0
7	7" AC (assumes a Traffic Index of 11)	SF	0	\$4.00	\$0
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	\$0
9	4" AB Shoulder (2' width)	SF	0	\$1.20	\$0
10	Subgrade Street Prep (Street)	SF	0	\$0.25	\$0
11	Subgrade Prep (Curb & Gutter)	SF	0	\$0.30	\$0
12	Subgrade Prep (AB Shoulder)	SF	0	\$0.30	\$0
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	\$0
14	Signing and Striping (36' ROW)*	LF	0	\$15.00	\$0
15	Traffic Signals	EA	0	\$320,000.00	\$0
16	Future Traffic Signal	EA	0	\$275,000.00	\$0
17	Signalized Intersection	EA	0	\$900,000.00	\$0
18	Sidewalk, Concrete	SF	0	\$6.00	\$0
19	Roundabout	EA	0	\$100,000.00	\$0
20	Joint Trench	LF	0	\$115.00 \$360.00	\$0
21	Underground Existing Utilities in Joint Trench	LF LF	-	\$360.00	\$0
22	Type 5 Curb Median  Median Landscaping	SF	1835	\$12.00 \$4.50	\$22,000
24	Frontage Landscaping	SF	23855	\$4.50	\$107,300
25	Signal Conduit and Wiring	EA	0	\$75,000.00	\$0 \$0
26	Curb and Gutter	LF	0	\$73,000.00	\$0
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	\$0
28	Irrigation Sleeves	LF	0	\$15.00	\$0
29	Street Lights (every 150 LF)	EA	0	\$6,000.00	\$0
30	Sawcut and Pavement Removal Median	LF	1835	\$20.00	\$36,700
31	Sawcut and Pavement Removal	LF	1835	\$3.00	\$5,500
32	Reconstruct Ditches	LF	0	\$3.00	\$0
33	Erosion Control	LF	1835	\$25.00	\$45,900
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	\$0
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	\$0
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	\$0
37	Grind and Remove Pavement	SF	0	\$3.00	\$0
38	Grind and Overlay	SF	73400	\$2.00	\$146,800
39	Retrofit Utilities	EA	0	\$3,000.00	\$0
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	\$0
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	\$0
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	\$0
43	Golf Course Fence and Netting	LF	0	\$133.00	\$0
44	Split Rail Fencing	LF	0	\$45.00	\$0
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	\$0
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	\$(
47	Traffic Control	JOB	1	\$100,000.00	\$100,000
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	\$0
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	\$0
	Construction Total:				\$514,200

\* Cost per linear foot of roadway.

\* Contingency Based upon Hard Costs (15/):

\*\* ROW Acquisition includes mapping, purchasing the land,

Soft Costs Contingency (17/):

\*\*\* ROW Acquisition includes mapping.

TOTAL CIRCULATION \$678,700

\$77,100

\$87,400



Engineer's Opinion of Costs
Village 1 - Backbone Roadway System
Phase 4 State Route 193 7

Item #	State Route 193 / Description	Unit	Quantity	Unit Price	Amount
Backbo	ne Roadway System				
1	Mobilization	JOB	1	\$50,000.00	\$50,000
2	Excavation	CY	1100	\$7.00	\$7,700
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	0	\$1.80	\$0
4	16" AB (assumes a Traffic Index of 9)	SF	0	\$2.25	\$0
5	5" AC (assumes a Traffic Index of 9)	SF	0	\$2.70	\$0
6	18" AB (assumes a Traffic Index of 11)	SF	5916	\$2.50	\$14,800
7	7" AC (assumes a Traffic Index of 11)	SF	5916	\$4.00	\$23,700
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	\$0
9	4" AB Shoulder (2' width)	SF	1520	\$1.20	\$1,800
10	Subgrade Street Prep (Street)	SF	5916	\$0.25	\$1,500
11	Subgrade Prep (Curb & Gutter)	SF	0	\$0.30	\$0
12	Subgrade Prep (AB Shoulder)	SF	1520	\$0.30	\$500
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	\$0
14	Signing and Striping (36' ROW)*	LF	760	\$15.00	\$11,400
15	Traffic Signals	EA	0	\$320,000.00	\$0
16	Future Traffic Signal	EA	0	\$275,000.00	\$0
17	Signalized Intersection	EA	0	\$900,000.00	\$0
18	Sidewalk, Concrete	SF	0	\$6.00	\$0
19	Roundabout	EA	0	\$100,000.00	\$0
20	Joint Trench	LF	0	\$115.00	\$0
21	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	\$0
22	Type 5 Curb Median	LF	760	\$12.00	\$9,100
23	Median Landscaping	SF	4560	\$4.50	\$20,500
24	Frontage Landscaping	SF	0	\$4.50	\$0
25	Signal Conduit and Wiring	EA LF	0	\$75,000.00	\$0
26	Curb and Gutter		0	\$27.00	\$0
27 28	AC Driveway (Per Approx. 12' wide)	EA LF	0	\$960.00 \$15.00	\$0 \$0
28	Irrigation Sleeves	EA	5	· ·	
30	Street Lights (every 150 LF) Sawcut and Pavement Removal Median	LF	1520	\$6,000.00 \$20.00	\$30,000 \$30,400
31	Sawcut and Pavement Removal	LF	760	\$3.00	\$30,400
32	Reconstruct Ditches	LF	760	\$3.00	\$2,300
33	Erosion Control	LF	760	\$25.00	\$19,000
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	\$13,000
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	\$0
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	\$0
37	Grind and Remove Pavement	SF	0	\$3.00	\$0
38	Grind and Overlay	SF	36480	\$2.00	\$73,000
39	Retrofit Utilities	EA	0	\$3,000.00	\$13,000
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	\$0
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	\$0
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	\$0
43	Golf Course Fence and Netting	LF	0	\$133.00	\$0
44	Split Rail Fencing	LF	0	\$45.00	\$0
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	\$0
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	\$0
47	Traffic Control	JOB	1	\$100,000.00	\$100,000
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	\$0
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	\$C
	Construction Total:				\$398,000

<sup>\*</sup> Cost per linear foot of roadway.

\*\* Cost per linear foot of roadway.

Contingency Based upon Hard Costs (15/): \$59,700

\*\* ROW Acquisition includes mapping, purchasing the land,

Soft Costs Contingency (17/): \$67,700

TOTAL CIRCULATION \$525,400

<sup>\*\*\*</sup> ROW Acquisition includes mapping.



Engineer's Opinion of Costs
Village 1 - Backbone Roadway System
Phase 4 Oak Tree Lane 2

Item #	Description	Unit	Quantity	Unit Price	Amount
D 1 1	and Baseliness Oceanies				
васкр	one Roadway System				
			1		
1	Mobilization	JOB	1	\$50,000.00	\$50,000
2	Excavation	CY	0	\$7.00	\$0
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	29160	\$1.80	\$52,500
4	16" AB (assumes a Traffic Index of 9)	SF	58320	\$2.25	\$131,200
5	5" AC (assumes a Traffic Index of 9)	SF	58320	\$2.70	\$157,500
6	18" AB (assumes a Traffic Index of 11)	SF	0	\$2.50	\$0
7	7" AC (assumes a Traffic Index of 11)	SF	0	\$4.00	\$0
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	\$0
9	4" AB Shoulder (2' width)	SF	0	\$1.20	\$0
10	Subgrade Street Prep (Street)	SF	58320	\$0.25	\$14,600
11	Subgrade Prep (Curb & Gutter)	SF	29160	\$0.30	\$8,700
12	Subgrade Prep (AB Shoulder)	SF	0	\$0.30	\$0
13	Subgrade Prep (DG Trail)	SF · -	0	\$0.30	\$0
14	Signing and Striping (36' ROW)*	LF	1620	\$15.00	\$24,300
15	Traffic Signals	EA	0	\$320,000.00	\$0
16	Future Traffic Signal	EA	0	\$275,000.00	\$0
17	Signalized Intersection	EA	0	\$900,000.00	\$0
18	Sidewalk, Concrete	SF	19440	\$6.00	\$116,600
19	Roundabout	EA	0	\$100,000.00	\$0
20	Joint Trench	<u>LF</u>	1620	\$115.00	\$186,300
21	Underground Existing Utilities in Joint Trench	LF 	0	\$360.00	\$0
22	Type 5 Curb Median	LF or	3240	\$12.00	\$38,900
23	Median Landscaping	SF	19440	\$4.50	\$87,500
24	Frontage Landscaping	SF	0	\$4.50	\$0
25	Signal Conduit and Wiring	EA	0	\$75,000.00	\$0
26	Curb and Gutter	LF.	3240	\$27.00	\$87,500
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	\$0
28	Irrigation Sleeves	LF EA	0	\$15.00	\$0
29	Street Lights (every 150 LF)	LF	11	\$6,000.00	\$66,000
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	\$0 \$0
31 32	Sawcut and Pavement Removal	LF		\$3.00	\$0 \$0
33	Reconstruct Ditches Erosion Control	LF	0 1620	\$3.00 \$25.00	\$40,500
34		LS	0	\$100,000.00	· · · · ·
35	ROW Acquisition (Ferrari Ranch Road) **  ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	\$0 \$0
36	ROW Acquisition (Oak Tree Lane - North) ***	LS	0	\$50,000.00	\$0 \$0
37	Grind and Remove Pavement	SF	0	\$30,000.00	\$0 \$0
38	Grind and Overlay	SF	0	\$2.00	\$0 \$0
39	Retrofit Utilities	EA	_	4	\$0 \$0
40	Dewatering - Ferrari Ranch Road	EA	0	\$3,000.00 \$25,000.00	\$0 \$0
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	\$0 \$0
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	\$0
43	Golf Course Fence and Netting	LF	0	\$133.00	\$0 \$0
44	Split Rail Fencing	LF	0	\$45.00	\$0
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	\$0
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	\$0
47	Traffic Control	JOB	0	\$100,000.00	\$0
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	\$0
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	\$0 \$0
73	Construction Total:	_/\	1 0	73,300,000.00	\$1,062,100
	Construction Total.				Ψ±,00±,100

<sup>\*</sup> Cost per linear foot of roadway.

Contingency Based upon Hard Costs (15/): \$159,300 Soft Costs Contingency (17/): \$180,600

TOTAL CIRCULATION \$1,402,000

<sup>\*\*</sup> ROW Acquisition includes mapping, purchasing the land,

<sup>\*\*\*</sup> ROW Acquisition includes mapping.



Engineer's Opinion of Costs
Village 1 - Backbone Roadway System
Phase 4 North South Collector 1

Item #	North South Collector 1  Description	Unit	Quantity	Unit Price	Amount
iteili#	νεοσημισιι	Ollit	Quantity	Onit Frice	Amount
Backh	one Roadway System				
Dackb	one Roadway System				
	Mark Wards a	IOD	1 41	¢50,000,00	¢=0.000
1	Mobilization	JOB	1 0	\$50,000.00	\$50,000
2	Excavation	CY		\$7.00 \$1.80	\$0
3	4" AB (Under Curb & Gutter and Sidewalk)  16" AB (assumes a Traffic Index of 9)	SF	14240		\$25,600
5	5" AC (assumes a Traffic Index of 9)	SF SF	32040 32040	\$2.25 \$2.70	\$72,100 \$86,500
6	18" AB (assumes a Traffic Index of 11)	SF	32040	\$2.70	\$60,300
7	7" AC (assumes a Traffic Index of 11)	SF	0	\$2.50	\$0 \$0
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	\$0 \$0
9	4" AB Shoulder (2' width)	SF	0	\$1.20	\$0 \$0
10	Subgrade Street Prep (Street)	SF	32040	\$0.25	\$8,000
11	Subgrade Prep (Curb & Gutter)	SF	14240	\$0.30	\$4,300
12	Subgrade Prep (Curb & Guiter) Subgrade Prep (AB Shoulder)	SF	0	\$0.30	\$4,500
13	Subgrade Prep (AB Shoulder) Subgrade Prep (DG Trail)	SF	0	\$0.30	\$0
14	Signing and Striping (36' ROW)*	LF	890	\$15.00	\$13,400
15	Traffic Signals	EA	0	\$320,000.00	\$13,400
16	Future Traffic Signal	EA	0	\$275,000.00	\$0 \$0
17	Signalized Intersection	EA	0	\$900,000.00	\$0
18	Sidewalk, Concrete	SF	8900	\$6.00	\$53,400
19	Roundabout	EA	0	\$100,000.00	\$33,400
20	Joint Trench	LF	890	\$100,000.00	\$102,400
21	Underground Existing Utilities in Joint Trench	LF	0.00	\$360.00	\$102,400
22	Type 5 Curb Median	LF	1780	\$12.00	\$21,400
23	Median Landscaping	SF	10680	\$4.50	\$48,100
24	Frontage Landscaping	SF	0	\$4.50	\$0
25	Signal Conduit and Wiring	EA	0	\$75,000.00	\$0
26	Curb and Gutter	LF	1780	\$27.00	\$48,100
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	\$0
28	Irrigation Sleeves	LF	0	\$15.00	\$0
29	Street Lights (every 150 LF)	EA	6	\$6,000.00	\$36,000
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	\$0
31	Sawcut and Pavement Removal	LF	0	\$3.00	\$0
32	Reconstruct Ditches	LF	0	\$3.00	\$0
33	Erosion Control	LF	890	\$25.00	\$22,300
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	\$0
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	\$0
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	\$0
37	Grind and Remove Pavement	SF	0	\$3.00	\$0
38	Grind and Overlay	SF	0	\$2.00	\$0
39	Retrofit Utilities	EA	0	\$3,000.00	\$0
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	\$0
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	\$0
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	\$0
43	Golf Course Fence and Netting	LF	0	\$133.00	\$0
44	Split Rail Fencing	LF	0	\$45.00	\$0
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	\$0
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	\$0
47	Traffic Control	JOB	0	\$100,000.00	\$0
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	\$0
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	\$0
	Construction Total:				\$591,600

<sup>\*</sup> Cost per linear foot of roadway.

Contingency Based upon Hard Costs (15/): \$88,700 \*\* ROW Acquisition includes mapping, purchasing the land, Soft Costs Contingency (17/): \$100,600

**TOTAL CIRCULATION** \$780,900

<sup>\*\*\*</sup> ROW Acquisition includes mapping.



Engineer's Opinion of Costs
Village 1 - Backbone Roadway System
Phase 4 Collector Loop 1

Item #	Collector Loop 1	Unit	Quantity	Unit Price	Amount
item#	Description	Unit	Quantity	Unit Price	Amount
Backh	one Roadway System				
Dackb	one Roadway System				
	Mark 95 and a	IOD	1 4	¢50,000,00	¢=0.000
2	Mobilization	JOB	1 0	\$50,000.00 \$7.00	\$50,000
3	Excavation 4" AB (Under Curb & Gutter and Sidewalk)	CY SF	· ·	\$7.00 \$1.80	\$0
4	16" AB (assumes a Traffic Index of 9)	SF SF	40160 90360	\$1.80	\$72,300
5	5" AC (assumes a Traffic Index of 9)	SF	90360	\$2.70	\$203,400 \$243,900
6	18" AB (assumes a Traffic Index of 11)	SF	0	\$2.50	\$243,300
7	7" AC (assumes a Traffic Index of 11)	SF	0	\$4.00	\$0
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	\$0
9	4" AB Shoulder (2' width)	SF	0	\$1.20	\$0
10	Subgrade Street Prep (Street)	SF	90360	\$0.25	\$22,500
11	Subgrade Prep (Curb & Gutter)	SF	40160	\$0.30	\$12,100
12	Subgrade Prep (AB Shoulder)	SF	0	\$0.30	\$12,100
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	\$0
14	Signing and Striping (36' ROW)*	LF	2510	\$15.00	\$37,600
15	Traffic Signals	EA	0	\$320,000.00	\$0
16	Future Traffic Signal	EA	0	\$275,000.00	\$0
17	Signalized Intersection	EA	0	\$900,000.00	\$0
18	Sidewalk, Concrete	SF	25100	\$6.00	\$150,600
19	Roundabout	EA	1	\$100,000.00	\$100,000
20	Joint Trench	LF	2510	\$115.00	\$288,600
21	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	\$0
22	Type 5 Curb Median	LF	0	\$12.00	\$0
23	Median Landscaping	SF	0	\$4.50	\$0
24	Frontage Landscaping	SF	0	\$4.50	\$0
25	Signal Conduit and Wiring	EA	0	\$75,000.00	\$0
26	Curb and Gutter	LF	5020	\$27.00	\$135,500
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	\$0
28	Irrigation Sleeves	LF	0	\$15.00	\$0
29	Street Lights (every 150 LF)	EA	17	\$6,000.00	\$102,000
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	\$0
31	Sawcut and Pavement Removal	LF	0	\$3.00	\$0
32	Reconstruct Ditches	LF	0	\$3.00	\$0
33	Erosion Control	LF	2510	\$25.00	\$62,700
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	\$0
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	\$0
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	\$0
37	Grind and Remove Pavement	SF	0	\$3.00	\$0
38	Grind and Overlay	SF	0	\$2.00	\$0
39	Retrofit Utilities	EA	0	\$3,000.00	\$0
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	\$0
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	\$0
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	\$0
43	Golf Course Fence and Netting	LF	0	\$133.00	\$0
44	Split Rail Fencing	LF	0	\$45.00	\$0
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	\$0
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	\$0
47	Traffic Control	JOB	0	\$100,000.00	\$0
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	\$0
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	\$0
	Construction Total:				\$1,481,200

<sup>\*</sup> Cost per linear foot of roadway.

Contingency Based upon Hard Costs (15/): \$222,300 \*\* ROW Acquisition includes mapping, purchasing the land, Soft Costs Contingency (17/): \$251,700

**TOTAL CIRCULATION** \$1,955,200

<sup>\*\*\*</sup> ROW Acquisition includes mapping.



Engineer's Opinion of Costs
Village 1 - Backbone Roadway System
Phase 4 Liberty Lane 1

Item #	Description	Unit	Quantity	Unit Price	Amount
<u>Backbor</u>	ne Roadway System				
1	Mobilization	JOB	1	\$50,000.00	\$50,000
2	Excavation	CY	0	\$7.00	\$(
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	0	\$1.80	\$(
4	16" AB (assumes a Traffic Index of 9)	SF	32280	\$2.25	\$72,600
5	5" AC (assumes a Traffic Index of 9)	SF	32280	\$2.70	\$87,200
6	18" AB (assumes a Traffic Index of 11)	SF	0	\$2.50	\$0
7	7" AC (assumes a Traffic Index of 11)	SF	0	\$4.00	\$(
8	Decomposed Granite Trail (4' width, 4" thick)	SF	10760	\$1.80	\$19,400
9	4" AB Shoulder (2' width)	SF	0	\$1.20	\$0
10	Subgrade Street Prep (Street)	SF	32280	\$0.25	\$8,100
11	Subgrade Prep (Curb & Gutter)	SF	0	\$0.30	\$0
12	Subgrade Prep (AB Shoulder)	SF	0	\$0.30	\$0
13	Subgrade Prep (DG Trail)	SF	10760	\$0.30	\$3,200
14	Signing and Striping (36' ROW)*	LF	0	\$15.00	\$0
15	Traffic Signals	EA	0	\$320,000.00	\$0
16	Future Traffic Signal	EA	0	\$275,000.00	\$0
17	Signalized Intersection	EA	0	\$900,000.00	\$0
18	Sidewalk, Concrete	SF	0	\$6.00	\$0
19	Roundabout	EA	0	\$100,000.00	\$0
20	Joint Trench	LF	1345	\$115.00	\$154,700
21	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	\$0
22	Type 5 Curb Median	LF	0	\$12.00	\$0
23	Median Landscaping	SF	0	\$4.50	\$0
24	Frontage Landscaping	SF	0	\$4.50	\$0
25	Signal Conduit and Wiring	EA	0	\$75,000.00	\$0
26	Curb and Gutter	LF	0	\$27.00	\$0
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	\$0
28	Irrigation Sleeves	LF	0	\$15.00	\$(
29	Street Lights (every 150 LF)	EA	9	\$6,000.00	\$54,000
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	\$(
31	Sawcut and Pavement Removal	LF	0	\$3.00	\$(
32	Reconstruct Ditches	LF	0	\$3.00	\$(
33	Erosion Control	LF	1345	\$25.00	\$33,600
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	\$(
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	\$(
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	\$(
37	Grind and Remove Pavement	SF	0	\$3.00	\$(
38	Grind and Overlay	SF	0	\$2.00	\$(
39	Retrofit Utilities	EA EA	0	\$3,000.00	\$( \$(
40	Dewatering - Ferrari Ranch Road		0	7-0,000.00	
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	\$0
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	\$(
43	Golf Course Fence and Netting	LF	0	\$133.00	\$(
44	Split Rail Fencing	LF IOP	0	\$45.00	\$(
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	\$(
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	\$100.000
47	Traffic Control	JOB	1	\$100,000.00	\$100,000
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	\$(
49	Bridge (at Auburn Ravine on Oak Tree Lane)  Construction Total:	EA	0	\$5,500,000.00	\$0 \$582,800

\* Cost per linear foot of roadway.

\*\* Cost per linear foot of roadway.

Contingency Based upon Hard Costs (15/): \$87,400

\*\* ROW Acquisition includes mapping, purchasing the land, Soft Costs Contingency (17/): \$99,100

\*\*\* ROW Acquisition includes mapping.

TOTAL CIRCULATION \$769,300



**Engineer's Opinion of Costs** 

Village 1 - Backbone Roadway System Phase 5 Summary Quantity Item # Description Unit **Unit Price Amount Backbone Roadway System** Mobilization JOB \$50,000.00 \$200,000 1 \$7.00 \$15,100 2 Excavation CY 2160 3 4" AB (Under Curb & Gutter and Sidewalk) SF 84980 \$1.80 \$153,000 4 16" AB (assumes a Traffic Index of 9) SF 178920 \$2.25 \$402,600 5 5" AC (assumes a Traffic Index of 9) SF \$2.70 \$483,100 178920 6 18" AB (assumes a Traffic Index of 11) SF 29163 \$2.50 \$72,900 7" AC (assumes a Traffic Index of 11) SF \$4.00 \$116,700 7 29163 Decomposed Granite Trail (4' width, 4" thick) 8 SF 0 \$1.80 \$0 SF 12520 \$1.20 \$15,000 9 4" AB Shoulder (2' width) 10 Subgrade Street Prep (Street) SF 208083 \$52,000 \$0.25 11 Subgrade Prep (Curb & Gutter) SF 84980 \$0.30 \$25,500 12 Subgrade Prep (AB Shoulder) SF 11440 \$0.30 \$3,400 Subgrade Prep (DG Trail) 13 SF \$0.30 \$0 Signing and Striping (36' ROW)\* LF 8520 \$127.800 14 \$15.00 15 Traffic Signals EΑ \$320,000.00 \$0 16 Future Traffic Signal EΑ 0 \$275,000.00 \$0 \$0 17 Signalized Intersection EΑ 0 \$900,000.00 SF 55160 \$331,000 18 Sidewalk, Concrete \$6.00 Roundabout 19 EΑ \$100,000.00 \$100,000 2940 20 Joint Trench LF \$115.00 \$338,100 21 Underground Existing Utilities in Joint Trench LF \$360.00 \$0 ΙF 8080 \$12.00 \$97,000 22 Type 5 Curb Median 23 SF 60570 \$4.50 \$272,600 Median Landscaping 24 Frontage Landscaping SF \$4.50 \$0 25 Signal Conduit and Wiring EΑ 0 \$75,000.00 \$0 LF 9940 \$268,400 26 Curb and Gutter \$27.00 EΑ \$5,800 27 AC Driveway (Per Approx. 12' wide) \$960.00 28 Irrigation Sleeves LF 0 \$15.00 \$0 ΕA 74 \$444,000 29 Street Lights (every 150 LF) \$6,000.00 30 Sawcut and Pavement Removal Median LF 0 \$20.00 \$0 31 Sawcut and Pavement Removal LF 6260 \$3.00 \$18,800 32 Reconstruct Ditches LF 4730 \$3.00 \$14,200 LF \$280,800 33 **Erosion Control** 11230 \$25.00 34 ROW Acquisition (Ferrari Ranch Road) \*\* LS \$100,000.00 \$0 0 35 ROW Acquisition (Oak Tree Lane - North) \*\* LS 0 \$500,000.00 \$0 ROW Acquisition (Oak Tree Lane - South) \*\*\* 36 LS 0 \$50,000.00 \$0 \$0 37 Grind and Remove Pavement SF \$3.00 38 SF 300480 \$601,000 Grind and Overlay \$2.00 FΑ 39 Retrofit Utilities \$3,000.00 \$12,000 40 Dewatering - Ferrari Ranch Road FΑ \$25,000.00 \$0 41 Dewatering - Oak Tree near So. Ingram Slough EΑ 0 \$50,000.00 \$0 42 Dewatering - Oak Tree near new lake EΑ \$75,000.00 \$0 LF 43 Golf Course Fence and Netting \$133.00 \$0 44 Split Rail Fencing LF 5350 \$240,800 \$45.00 45 FRR Supplemental Topo + Aerial Topo JOB \$12,500.00 \$0 0 46 Remediation Trench and Monitoring JOB 0 \$1,000,000.00 \$0 47 Traffic Control JOB \$100,000.00 \$100,000 Traffic Control Oak Tree Lane JOB 0 48 \$0 \$250,000.00 Bridge (at Auburn Ravine on Oak Tree Lane) \$0 49 EΑ O \$5,500,000.00

Contingency Based upon Hard Costs (15/): \$718,700 Soft Costs Contingency (17/): \$814,600

TOTAL CIRCULATION \$6,324,900

\$4,791,600

Construction Total:

<sup>\*</sup> Cost per linear foot of roadway.

<sup>\*\*</sup> ROW Acquisition includes mapping, purchasing the land,

<sup>\*\*\*</sup> ROW Acquisition includes mapping.



**Engineer's Opinion of Costs** Village 1 - Backbone Roadway System Phase 5 State Route 193 8 Item # Unit Quantity **Unit Price** Description Amount **Backbone Roadway System** Mobilization JOB 0.25 \$50,000.00 \$12,500 2 Excavation CY 1073 \$7.00 \$7.500 4" AB (Under Curb & Gutter and Sidewalk) 3 SF \$1.80 \$0 4 16" AB (assumes a Traffic Index of 9) SF 0 \$2.25 \$0 5 5" AC (assumes a Traffic Index of 9) SF 0 \$2.70 \$0 6 18" AB (assumes a Traffic Index of 11) SF 14491 \$2.50 \$36,200 7" AC (assumes a Traffic Index of 11) SF 14491 \$4.00 \$58,100 Decomposed Granite Trail (4' width, 4" thick) 8 SF \$1.80 4" AB Shoulder (2' width) \$4,700 9 SF 3880 \$1.20 10 Subgrade Street Prep (Street) SF 14491 \$0.25 \$3,600 11 Subgrade Prep (Curb & Gutter) SF \$0.30 \$0 Subgrade Prep (AB Shoulder) 12 SF 3880 \$0.30 \$1,100 13 Subgrade Prep (DG Trail) SF \$0.30 \$0 0 970 \$15.00 \$14,600 14 Signing and Striping (36' ROW)\* LF 15 Traffic Signals EΑ \$320,000.00 0 16 Future Traffic Signal FΑ \$275,000.00 \$0 Signalized Intersection 17 EΑ 0 \$900,000.00 \$0 18 Sidewalk, Concrete SF 0 \$6.00 \$0 19 Roundabout EΑ 0 \$100,000.00 \$0 1 F 0 \$0 20 Joint Trench \$115.00 Underground Existing Utilities in Joint Trench 21 LF 0 \$360.00 \$0 Type 5 Curb Median 22 LF 0 \$12.00 \$0 0 23 SF \$4.50 \$0 Median Landscaping SF 0 \$0 \$4.50 24 Frontage Landscaping EΑ \$75,000.00 \$0 25 Signal Conduit and Wiring 0 26 Curb and Gutter 1 F 0 \$27.00 \$0 EΑ 3 \$2,900 27 AC Driveway (Per Approx. 12' wide) \$960.00 28 Irrigation Sleeves LF 0 \$15.00 \$0 EΑ \$78,000 29 Street Lights (every 150 LF) 13 \$6,000.00 30 Sawcut and Pavement Removal Median LF 0 \$20.00 31 LF 1940 \$5,800 Sawcut and Pavement Removal \$3.00 32 Reconstruct Ditches LF 1940 \$3.00 \$5,800 33 LF 1940 \$25.00 \$48,500 **Erosion Control** 34 ROW Acquisition (Ferrari Ranch Road) \*\* LS 0 \$100,000.00 \$0 0 \$500.000.00 \$0 35 ROW Acquisition (Oak Tree Lane - North) \*\* LS LS 36 ROW Acquisition (Oak Tree Lane - South) \*\* 0 \$50,000.00 \$0 37 Grind and Remove Pavement SF \$0 SF 93120 38 \$2.00 \$186,200 Grind and Overlay 39 Retrofit Utilities EΑ \$3,000.00 \$6,000 EΑ 40 Dewatering - Ferrari Ranch Road \$25,000.00 \$0 41 Dewatering - Oak Tree near So. Ingram Slough EΑ 0 \$50,000.00 \$0 EΑ 42 Dewatering - Oak Tree near new lake 0 \$75,000.00 \$0 \$0 43 Golf Course Fence and Netting LF 0 \$133.00 44 Split Rail Fencing 1 F 0 \$45.00 \$0 JOB 45 FRR Supplemental Topo + Aerial Topo 0 \$12,500.00 \$0 JOB \$0 46 Remediation Trench and Monitoring 0 \$1,000,000.00 47 Traffic Control JOB 0.25 \$100,000.00 \$25,000 48 Traffic Control Oak Tree Lane JOB \$250,000.00 \$0 0 49 Bridge (at Auburn Ravine on Oak Tree Lane) EΑ \$5,500,000.00 \$0 Construction Total: \$496,500

\* Cost per linear foot of roadway.

Contingency Based upon Hard Costs (15/): \$74,500 Soft Costs Contingency (17/): \$84,400

\*\* ROW Acquisition includes mapping, purchasing the land,

TOTAL CIRCULATION \$655,400

<sup>\*\*\*</sup> ROW Acquisition includes mapping.



**Engineer's Opinion of Costs** Village 1 - Backbone Roadway System Phase 5 State Route 193 9

Item #	Description	Unit	Quantity	Unit Price	Amount
Backbo	ne Roadway System				
1	Mobilization	JOB	0.25	\$50,000.00	\$12,500
2	Excavation	CY	343	\$7.00	\$2,400
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	0	\$1.80	\$0
4	16" AB (assumes a Traffic Index of 9)	SF	0	\$2.25	\$(
5	5" AC (assumes a Traffic Index of 9)	SF	0	\$2.70	\$0
6	18" AB (assumes a Traffic Index of 11)	SF	4634	\$2.50	\$11,600
7	7" AC (assumes a Traffic Index of 11)	SF	4634	\$4.00	\$18,500
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	\$0,555
9	4" AB Shoulder (2' width)	SF	1280	\$1.20	\$1,500
10	Subgrade Street Prep (Street)	SF	4634	\$0.25	\$1,200
11	Subgrade Prep (Curb & Gutter)	SF	0	\$0.30	\$0
12	Subgrade Prep (AB Shoulder)	SF	1280	\$0.30	\$400
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	\$0
14	Signing and Striping (36' ROW)*	LF	320	\$15.00	\$4,800
15	Traffic Signals	EA	0	\$320,000.00	\$0
16	Future Traffic Signal	EA	0	\$275,000.00	\$0
17	Signalized Intersection	EA	0	\$900,000.00	\$0
18	Sidewalk, Concrete	SF	0	\$6.00	\$0
19	Roundabout	EA	0	\$100,000.00	\$0
20	Joint Trench	LF	0	\$115.00	\$0
21	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	\$0
22	Type 5 Curb Median	LF	0	\$12.00	\$0
23	Median Landscaping	SF	0	\$4.50	\$0
24	Frontage Landscaping	SF	0	\$4.50	\$0
25	Signal Conduit and Wiring	EA	0	\$75,000.00	\$0
26	Curb and Gutter	LF	0	\$27.00	\$0
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	\$0
28	Irrigation Sleeves	LF	0	\$15.00	\$0
29	Street Lights (every 150 LF)	EA	4	\$6,000.00	\$24,000
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	\$0
31	Sawcut and Pavement Removal	LF	640	\$3.00	\$1,900
32	Reconstruct Ditches	LF	640	\$3.00	\$1,900
33	Erosion Control	LF	640	\$25.00	\$16,000
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	\$0
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	\$0
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	\$0
37	Grind and Remove Pavement	SF	0	\$3.00	\$0
38	Grind and Overlay	SF	30720	\$2.00	\$61,400
39	Retrofit Utilities	EA	0	\$3,000.00	\$0
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	\$0
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	\$C
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	\$0
43	Golf Course Fence and Netting	LF	0	\$133.00	\$0
44	Split Rail Fencing	LF	0	\$45.00	\$0
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	\$(
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	\$(
47	Traffic Control	JOB	0.25	\$100,000.00	\$25,000
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	\$(
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	\$(
<u> </u>	Construction Total:		-	. ,,	\$183,100

<sup>\*</sup> Cost per linear foot of roadway. Contingency Based upon Hard Costs (15/): Soft Costs Contingency (17/):

\*\*\* ROW Acquisition includes mapping.

**TOTAL CIRCULATION** \$241,700

\$27,500

\$31,100

<sup>\*\*</sup> ROW Acquisition includes mapping, purchasing the land,



Engineer's Opinion of Costs
Village 1 - Backbone Roadway System
Phase 5 State Route 193 10

Item #	State Route 193 10  Description	Unit	Quantity	Unit Price	Amount
Backbo	ne Roadway System				
1	Mobilization	JOB	0.25	\$50,000.00	\$12,500
2	Excavation	CY	353	\$7.00	\$2,500
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	0	\$1.80	\$0
4	16" AB (assumes a Traffic Index of 9)	SF	0	\$2.25	\$0
5	5" AC (assumes a Traffic Index of 9)	SF	0	\$2.70	\$0
6	18" AB (assumes a Traffic Index of 11)	SF	4760	\$2.50	\$11,900
7	7" AC (assumes a Traffic Index of 11)	SF	4760	\$4.00	\$19,000
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	\$0
9	4" AB Shoulder (2' width)	SF	3380	\$1.20	\$4,100
10	Subgrade Street Prep (Street)	SF	4760	\$0.25	\$1,200
11	Subgrade Prep (Curb & Gutter)	SF	0	\$0.30	\$0
12	Subgrade Prep (AB Shoulder)	SF	3380	\$0.30	\$1,000
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	\$0
14	Signing and Striping (36' ROW)*	LF	1690	\$15.00	\$25,400
15	Traffic Signals	EA	0	\$320,000.00	\$C
16	Future Traffic Signal	EA	0	\$275,000.00	\$0
17	Signalized Intersection	EA	0	\$900,000.00	\$0
18	Sidewalk, Concrete	SF	0	\$6.00	\$0
19	Roundabout	EA	0	\$100,000.00	\$0
20	Joint Trench	LF LF	0	\$115.00	\$0
21	Underground Existing Utilities in Joint Trench	LF LF	0	\$360.00	\$0 \$0
22	Type 5 Curb Median  Median Landscaping	SF	0	\$12.00 \$4.50	\$0
24	Frontage Landscaping	SF	0	\$4.50	\$0
25	Signal Conduit and Wiring	EA	0	\$75,000.00	\$0
26	Curb and Gutter	LF	0	\$27.00	\$0
27	AC Driveway (Per Approx. 12' wide)	EA	3	\$960.00	\$2,900
28	Irrigation Sleeves	LF	0	\$15.00	\$0
29	Street Lights (every 150 LF)	EA	11	\$6,000.00	\$66,000
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	\$0
31	Sawcut and Pavement Removal	LF	1690	\$3.00	\$5,100
32	Reconstruct Ditches	LF	2150	\$3.00	\$6,500
33	Erosion Control	LF	1690	\$25.00	\$42,300
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	\$0
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	\$0
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	\$0
37	Grind and Remove Pavement	SF	0	\$3.00	\$0
38	Grind and Overlay	SF	81120	\$2.00	\$162,200
39	Retrofit Utilities	EA	2	\$3,000.00	\$6,000
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	\$0
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	\$0
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	\$0
43	Golf Course Fence and Netting	LF	0	\$133.00	\$0
44	Split Rail Fencing	LF	0	\$45.00	\$0
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	\$0
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	\$(
47	Traffic Control	JOB	0.25	\$100,000.00	\$25,000
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	\$(
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	\$(
	Construction Total:				\$393,600

<sup>\*</sup> Cost per linear foot of roadway.

\*\* Contingency Based upon Hard Costs (15/): \$59,000

\*\* ROW Acquisition includes mapping, purchasing the land, Soft Costs Contingency (17/): \$66,900

TOTAL CIRCULATION \$519,500

<sup>\*\*\*</sup> ROW Acquisition includes mapping.



**Engineer's Opinion of Costs** Village 1 - Backbone Roadway System Phase 5 State Route 193 11

_	5 State Route 193 11				
Item #	Description	Unit	Quantity	Unit Price	Amount
Backb	one Roadway System				
1	Mobilization	JOB	0.25	\$50,000.00	\$12,500
2	Excavation	CY	391	\$7.00	\$2,700
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	0	\$1.80	\$2,700
4	16" AB (assumes a Traffic Index of 9)	SF	0	\$2.25	\$0
5	5" AC (assumes a Traffic Index of 9)	SF	0	\$2.70	\$0
6	18" AB (assumes a Traffic Index of 11)	SF	5278	\$2.50	\$13,200
7	7" AC (assumes a Traffic Index of 11)	SF	5278	\$4.00	\$21,100
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	\$0
9	4" AB Shoulder (2' width)	SF	3980	\$1.20	\$4,700
10	Subgrade Street Prep (Street)	SF	5278	\$0.25	\$1,300
11	Subgrade Prep (Curb & Gutter)	SF	0	\$0.30	\$0
12	Subgrade Prep (AB Shoulder)	SF	2900	\$0.30	\$900
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	\$0
14	Signing and Striping (36' ROW)*	LF	570	\$15.00	\$8,600
15	Traffic Signals	EA	0	\$320,000.00	\$0
16	Future Traffic Signal	EA	0	\$275,000.00	\$0
17	Signalized Intersection	EA	0	\$900,000.00	\$0
18	Sidewalk, Concrete	SF	0	\$6.00	\$0
19	Roundabout	EA	0	\$100,000.00	\$0
20	Joint Trench	LF	0	\$115.00	\$0
21	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	\$0
22	Type 5 Curb Median	LF	0	\$12.00	\$0
23	Median Landscaping	SF	0	\$4.50	\$0
24	Frontage Landscaping	SF	0	\$4.50	\$0
25	Signal Conduit and Wiring	EA	0	\$75,000.00	\$0
26	Curb and Gutter	LF	0	\$27.00	\$0
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	\$0
28	Irrigation Sleeves	LF	0	\$15.00	\$0
29	Street Lights (every 150 LF)	EA	13	\$6,000.00	\$78,000
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	\$0
31	Sawcut and Pavement Removal	LF	1990	\$3.00	\$6,000
32	Reconstruct Ditches	LF	0	\$3.00	\$0
33	Erosion Control	LF	1990	\$25.00	\$49,800
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	\$0
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	\$0
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	\$0
37	Grind and Remove Pavement	SF	0	\$3.00	\$0
38	Grind and Overlay	SF	95520	\$2.00	\$191,200
39	Retrofit Utilities	EA	0	\$3,000.00	\$0
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	\$0
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	\$0
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	\$0
43	Golf Course Fence and Netting	LF	0	\$133.00	\$0
44	Split Rail Fencing	LF	0	\$45.00	\$0 \$0
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	\$0
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	\$0
47	Traffic Control	JOB	0.25	\$100,000.00	\$25,000
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	\$0
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	\$0
	Construction Total:				\$415,000

<sup>\*</sup> Cost per linear foot of roadway.

**TOTAL CIRCULATION** \$547,900

Contingency Based upon Hard Costs (15/): \$62,300  $\ensuremath{^{**}}$  ROW Acquisition includes mapping, purchasing the land, Soft Costs Contingency (17/): \$70,600

<sup>\*\*\*</sup> ROW Acquisition includes mapping.



Engineer's Opinion of Costs
Village 1 - Backbone Roadway System
Phase 5 Oak Tree Lane 1

	Oak Tree Lane 1			-				
Item #	Description	Unit	Quantity	Unit Price	Amount			
Backb	one Roadway System							
1	Mobilization	JOB	1	\$50,000.00	\$50,000			
2	Excavation	CY	0	\$7.00	\$0			
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	49140	\$1.80	\$88,500			
4	16" AB (assumes a Traffic Index of 9)	SF	98280	\$2.25	\$221,200			
5	5" AC (assumes a Traffic Index of 9)	SF	98280	\$2.70	\$265,400			
6	18" AB (assumes a Traffic Index of 11)	SF	0	\$2.50	\$0			
7	7" AC (assumes a Traffic Index of 11)	SF	0	\$4.00	\$0			
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	\$0			
9	4" AB Shoulder (2' width)	SF	0	\$1.20	\$0			
10	Subgrade Street Prep (Street)	SF	98280	\$0.25	\$24,500			
11	Subgrade Prep (Curb & Gutter)	SF	49140	\$0.30	\$14,700			
12	Subgrade Prep (AB Shoulder)	SF	0	\$0.30	\$14,780			
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	\$0			
14	Signing and Striping (36' ROW)*	LF	2730	\$15.00	\$40,700			
15	Traffic Signals	EA	0	\$320,000.00	\$40,780			
16	Future Traffic Signal	EA	0	\$275,000.00	\$0			
17	Signalized Intersection	EA	0	\$900,000.00	\$0			
18	Sidewalk, Concrete	SF	32760	\$6.00	\$196,600			
19	Roundabout	EA	0	\$100,000.00	\$0			
20	Joint Trench	LF	700	\$10,000.00	\$80,500			
21	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	\$00,500			
22	Type 5 Curb Median	LF	5460	\$12.00	\$65,600			
23	Median Landscaping	SF	32760	\$4.50	\$147,500			
24	Frontage Landscaping	SF	0	\$4.50	\$147,500			
25	Signal Conduit and Wiring	EA	0	\$75,000.00	\$0			
26	Curb and Gutter	LF	5460	\$27.00	\$147,500			
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	\$0			
28	Irrigation Sleeves	LF	0	\$15.00	\$0			
29	Street Lights (every 150 LF)	EA	18	\$6,000.00	\$108,000			
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	\$100,000			
31	Sawcut and Pavement Removal	LF	0	\$3.00	\$0			
32	Reconstruct Ditches	LF	0	\$3.00	\$0			
33	Erosion Control	LF	2730	\$25.00	\$68,100			
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	\$0			
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	\$0			
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	\$0			
37	Grind and Remove Pavement	SF	0	\$3.00	\$0			
38	Grind and Overlay	SF	0	\$2.00	\$0			
39	Retrofit Utilities	EA	0	\$3,000.00	\$0			
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	\$0			
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	\$0			
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	\$0			
43	Golf Course Fence and Netting	LF	0	\$133.00	\$0			
44	Split Rail Fencing	LF	5350	\$45.00	\$240,800			
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	\$240,800			
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	\$0			
47	Traffic Control	JOB	0	\$100,000.00	\$0			
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	\$0			
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	\$0			
73	Construction Total:		<u> </u>	73,300,000.00	\$1,759,600			
	Constitution Total.	Construction Total: \$1,759,000						

<sup>\*</sup> Cost per linear foot of roadway.

Contingency Based upon Hard Costs (15/): \$263,800 \*\* ROW Acquisition includes mapping, purchasing the land, Soft Costs Contingency (17/): \$299,200

**TOTAL CIRCULATION** \$2,322,600

<sup>\*\*\*</sup> ROW Acquisition includes mapping.



**Engineer's Opinion of Costs** Village 1 - Backbone Roadway System Phase 5 North South Collector 2 Description Quantity Item # Unit **Unit Price Amount Backbone Roadway System** Mobilization JOB \$50,000.00 \$50,000 1 \$7.00 2 Excavation CY \$0 3 4" AB (Under Curb & Gutter and Sidewalk) SF 20960 \$1.80 \$37,700 4 16" AB (assumes a Traffic Index of 9) SF 47160 \$2.25 \$106,100 5 5" AC (assumes a Traffic Index of 9) SF 47160 \$2.70 \$127,300 6 18" AB (assumes a Traffic Index of 11) SF \$2.50 \$0 7 7" AC (assumes a Traffic Index of 11) SF \$4.00 \$0 8 Decomposed Granite Trail (4' width, 4" thick) SF 0 \$1.80 \$0 SF \$1.20 \$0 9 4" AB Shoulder (2' width) 0 10 Subgrade Street Prep (Street) SF 47160 \$11,800 \$0.25 11 Subgrade Prep (Curb & Gutter) SF 20960 \$0.30 \$6,300 12 Subgrade Prep (AB Shoulder) SF \$0.30 \$0 Subgrade Prep (DG Trail) 0 \$0.30 13 SF \$0 Signing and Striping (36' ROW)\* LF 1310 \$19,700 14 \$15.00 15 Traffic Signals EΑ \$320,000.00 \$0 16 Future Traffic Signal EΑ 0 \$275,000.00 \$0 \$0 17 Signalized Intersection EΑ 0 \$900,000.00 SF 13100 \$78,600 18 Sidewalk, Concrete \$6.00 Roundabout 19 EΑ \$100,000.00 \$0 1310 20 Joint Trench LF \$115.00 \$150,600 21 Underground Existing Utilities in Joint Trench LF \$360.00 \$0 LF 2620 \$12.00 \$31,400 22 Type 5 Curb Median 23 SF 15720 \$4.50 \$70,700 Median Landscaping 24 Frontage Landscaping SF \$4.50 \$0 25 Signal Conduit and Wiring EΑ 0 \$75,000.00 \$0 LF \$70,700 26 Curb and Gutter 2620 \$27.00 EΑ 27 AC Driveway (Per Approx. 12' wide) 0 \$960.00 \$0 28 Irrigation Sleeves LF 0 \$15.00 \$0 EΑ 9 \$54,000 29 Street Lights (every 150 LF) \$6,000.00 30 Sawcut and Pavement Removal Median LF 0 \$20.00 \$0 LF 31 Sawcut and Pavement Removal 0 \$0 \$3.00 32 Reconstruct Ditches LF 0 \$3.00 \$0 LF \$32,800 33 **Erosion Control** 1310 \$25.00 34 ROW Acquisition (Ferrari Ranch Road) \*\* LS \$100,000.00 \$0 0 35 ROW Acquisition (Oak Tree Lane - North) \*\* LS 0 \$500,000.00 \$0 ROW Acquisition (Oak Tree Lane - South) \*\*\* LS \$0 36 0 \$50,000.00 \$0 37 Grind and Remove Pavement SF 0 \$3.00 38 SF 0 \$0 Grind and Overlay \$2.00 FΑ 0 \$0 39 Retrofit Utilities \$3,000.00 \$0 40 Dewatering - Ferrari Ranch Road FΑ 0 \$25,000.00 41 Dewatering - Oak Tree near So. Ingram Slough EΑ 0 \$50,000.00 \$0 42 Dewatering - Oak Tree near new lake EΑ \$75,000.00 \$0 LF 43 Golf Course Fence and Netting 0 \$133.00 \$0 44 LF 0 \$0 Split Rail Fencing \$45.00 45 FRR Supplemental Topo + Aerial Topo JOB 0 \$12,500.00 \$0 \$0 46 Remediation Trench and Monitoring JOB 0 \$1,000,000.00 47 JOB 0 \$100,000.00 \$0 Traffic Control \$0 Traffic Control Oak Tree Lane JOB 48 0 \$250,000.00 Bridge (at Auburn Ravine on Oak Tree Lane) \$0 49 EΑ \$5,500,000.00

Contingency Based upon Hard Costs (15/): \$127,200

Soft Costs Contingency (17/): \$144,100

TOTAL CIRCULATION \$1,119,000

\$847,700

Construction Total:

<sup>\*</sup> Cost per linear foot of roadway.

<sup>\*\*</sup> ROW Acquisition includes mapping, purchasing the land,

<sup>\*\*\*</sup> ROW Acquisition includes mapping.



**Engineer's Opinion of Costs** 

Village 1 - Backbone Roadway System Phase 5 Collector Loop 2 Quantity Item # Description Unit **Unit Price Amount Backbone Roadway System** Mobilization JOB \$50,000.00 \$50,000 1 \$7.00 2 Excavation CY \$0 3 4" AB (Under Curb & Gutter and Sidewalk) SF 14880 \$1.80 \$26,800 4 16" AB (assumes a Traffic Index of 9) SF 33480 \$2.25 \$75,300 \$90,400 5 5" AC (assumes a Traffic Index of 9) SF 33480 \$2.70 6 18" AB (assumes a Traffic Index of 11) SF \$2.50 \$0 7 7" AC (assumes a Traffic Index of 11) SF \$4.00 \$0 8 Decomposed Granite Trail (4' width, 4" thick) SF 0 \$1.80 \$0 SF \$1.20 \$0 9 4" AB Shoulder (2' width) 0 10 Subgrade Street Prep (Street) SF 33480 \$8,400 \$0.25 11 Subgrade Prep (Curb & Gutter) SF 14880 \$0.30 \$4,500 12 Subgrade Prep (AB Shoulder) SF \$0.30 \$0 Subgrade Prep (DG Trail) 0 \$0 13 SF \$0.30 Signing and Striping (36' ROW)\* LF 930 \$14.000 14 \$15.00 15 Traffic Signals EΑ 0 \$320,000.00 \$0 16 Future Traffic Signal EΑ 0 \$275,000.00 \$0 \$0 17 Signalized Intersection EΑ 0 \$900,000.00 SF 9300 \$55,800 18 Sidewalk, Concrete \$6.00 Roundabout 19 EΑ \$100,000.00 \$100,000 \$107,000 20 Joint Trench LF 930 \$115.00 21 Underground Existing Utilities in Joint Trench LF 0 \$360.00 \$0 LF \$0 \$12.00 22 Type 5 Curb Median 23 SF 12090 \$4.50 \$54,400 Median Landscaping 24 Frontage Landscaping SF \$4.50 \$0 25 Signal Conduit and Wiring EΑ 0 \$75,000.00 \$0 LF 1860 \$50,200 26 Curb and Gutter \$27.00 EΑ 27 AC Driveway (Per Approx. 12' wide) 0 \$960.00 \$0 28 Irrigation Sleeves LF 0 \$15.00 \$0 EΑ 6 \$36,000 29 Street Lights (every 150 LF) \$6,000.00 30 Sawcut and Pavement Removal Median LF 0 \$20.00 \$0 31 Sawcut and Pavement Removal LF 0 \$0 \$3.00 32 Reconstruct Ditches LF 0 \$3.00 \$0 LF \$23,300 33 **Erosion Control** 930 \$25.00 34 ROW Acquisition (Ferrari Ranch Road) \*\* LS 0 \$100,000.00 \$0 35 ROW Acquisition (Oak Tree Lane - North) \*\* LS 0 \$500,000.00 \$0 ROW Acquisition (Oak Tree Lane - South) \*\*\* LS \$0 36 0 \$50,000.00 \$0 37 Grind and Remove Pavement SF 0 \$3.00 38 SF 0 \$0 Grind and Overlay \$2.00 FΑ 0 \$0 39 Retrofit Utilities \$3,000.00 \$0 40 Dewatering - Ferrari Ranch Road FΑ 0 \$25,000.00 41 Dewatering - Oak Tree near So. Ingram Slough EΑ 0 \$50,000.00 \$0 42 Dewatering - Oak Tree near new lake EΑ \$75,000.00 \$0 LF 43 Golf Course Fence and Netting 0 \$133.00 \$0 44 LF 0 \$0 Split Rail Fencing \$45.00

JOB

JOB

JOB

JOB

EΑ

FRR Supplemental Topo + Aerial Topo

Bridge (at Auburn Ravine on Oak Tree Lane)

Construction Total:

Remediation Trench and Monitoring

Traffic Control Oak Tree Lane

Traffic Control

45

46

47

48

49

TOTAL CIRCULATION \$918,800

\$12,500.00

\$1,000,000.00

\$100,000.00

\$250,000.00

\$5,500,000.00

\$0 \$0

\$0 \$0

\$0

\$696,100

0

0

0

0

<sup>\*</sup> Cost per linear foot of roadway.

\* Contingency Based upon Hard Costs (15/): \$104,400

\*\* ROW Acquisition includes mapping, purchasing the land, Soft Costs Contingency (17/): \$118,300

<sup>\*\*\*</sup> ROW Acquisition includes mapping.



**Engineer's Opinion of Costs** 

Village 1 - Backbone Roadway System Phase 6 Summary Description Quantity Item # Unit **Unit Price Amount Backbone Roadway System** Mobilization JOB \$50,000.00 \$50,000 1 \$7.00 2 Excavation CY \$0 3 4" AB (Under Curb & Gutter and Sidewalk) SF 60320 \$1.80 \$108,600 4 16" AB (assumes a Traffic Index of 9) SF 135720 \$2.25 \$305,400 5 5" AC (assumes a Traffic Index of 9) SF 135720 \$2.70 \$366,400 6 18" AB (assumes a Traffic Index of 11) SF \$2.50 \$0 7 7" AC (assumes a Traffic Index of 11) SF \$4.00 \$0 8 Decomposed Granite Trail (4' width, 4" thick) SF 0 \$1.80 \$0 SF \$1.20 \$0 9 4" AB Shoulder (2' width) 0 10 Subgrade Street Prep (Street) SF 135720 \$33,900 \$0.25 11 Subgrade Prep (Curb & Gutter) SF 60320 \$0.30 \$18,100 12 Subgrade Prep (AB Shoulder) SF \$0.30 \$0 Subgrade Prep (DG Trail) \$0.30 \$0 13 SF 0 Signing and Striping (36' ROW)\* LF 3770 \$56,600 14 \$15.00 15 Traffic Signals EΑ \$320,000.00 \$0 16 Future Traffic Signal EΑ 0 \$275,000.00 \$0 \$0 17 Signalized Intersection EΑ 0 \$900,000.00 SF 37700 \$226,200 18 Sidewalk, Concrete \$6.00 Roundabout 19 EΑ \$100,000.00 \$C LF 3770 20 Joint Trench \$115.00 \$433,600 21 Underground Existing Utilities in Joint Trench LF \$360.00 \$0 LF \$0 0 \$12.00 22 Type 5 Curb Median 23 SF 0 \$4.50 \$0 Median Landscaping 24 Frontage Landscaping SF 0 \$4.50 \$0 25 Signal Conduit and Wiring EΑ 0 \$75,000.00 \$0 LF 7540 \$203,600 26 Curb and Gutter \$27.00 EΑ 27 AC Driveway (Per Approx. 12' wide) 0 \$960.00 \$0 28 Irrigation Sleeves LF 0 \$15.00 \$0 EΑ 25 \$150,000 29 Street Lights (every 150 LF) \$6,000.00 30 Sawcut and Pavement Removal Median LF 0 \$20.00 \$0 LF 31 Sawcut and Pavement Removal 0 \$0 \$3.00 32 Reconstruct Ditches LF 0 \$3.00 \$0 LF \$94,300 33 **Erosion Control** 3770 \$25.00 34 ROW Acquisition (Ferrari Ranch Road) \*\* LS \$100,000.00 \$0 0 35 ROW Acquisition (Oak Tree Lane - North) \*\* LS 0 \$500,000.00 \$0 ROW Acquisition (Oak Tree Lane - South) \*\*\* LS \$0 36 0 \$50,000.00 \$0 37 Grind and Remove Pavement SF 0 \$3.00 38 SF 0 \$0 Grind and Overlay \$2.00 FΑ 0 \$0 39 Retrofit Utilities \$3,000.00 \$0 40 Dewatering - Ferrari Ranch Road FΑ 0 \$25,000.00 41 Dewatering - Oak Tree near So. Ingram Slough EΑ 0 \$50,000.00 \$0 42 Dewatering - Oak Tree near new lake EΑ \$75,000.00 \$0 LF 43 Golf Course Fence and Netting 0 \$133.00 \$0 44 Split Rail Fencing LF 0 \$0 \$45.00 45 FRR Supplemental Topo + Aerial Topo JOB 0 \$12,500.00 \$0 \$0 46 Remediation Trench and Monitoring JOB 0 \$1,000,000.00 47 Traffic Control JOB 0 \$100,000.00 \$0 \$0 Traffic Control Oak Tree Lane JOB 48 0 \$250,000.00 Bridge (at Auburn Ravine on Oak Tree Lane) \$0 49 EΑ \$5,500,000.00 Construction Total: \$2,046,700

Contingency Based upon Hard Costs (15/): \*\* ROW Acquisition includes mapping, purchasing the land, Soft Costs Contingency (17/): \$307,000 \$347,900

**TOTAL CIRCULATION** \$2,701,600

<sup>\*</sup> Cost per linear foot of roadway.

<sup>\*\*\*</sup> ROW Acquisition includes mapping.



Engineer's Opinion of Costs	
Village 1 - Backbone Roadway System	
Phase 6 Collector Loop 3	

	6 Collector Loop 3	l lesi4	Quentitu	Unit Daise	America
Item #	Description	Unit	Quantity	Unit Price	Amount
Baakh	one Roadway System				
Баско	one Roadway System				
			T		
1	Mobilization	JOB	1	\$50,000.00	\$50,000
2	Excavation	CY	0	\$7.00	\$0
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	60320	\$1.80	\$108,600
4	16" AB (assumes a Traffic Index of 9)	SF	135720	\$2.25	\$305,400
5	5" AC (assumes a Traffic Index of 9)	SF	135720	\$2.70	\$366,400
6	18" AB (assumes a Traffic Index of 11)	SF	0	\$2.50	\$0
7	7" AC (assumes a Traffic Index of 11)	SF	0	\$4.00	\$0
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	\$0
9	4" AB Shoulder (2' width)	SF	0	\$1.20	\$0
10	Subgrade Street Prep (Street)	SF	135720	\$0.25	\$33,900
11	Subgrade Prep (Curb & Gutter)	SF	60320	\$0.30	\$18,100
12	Subgrade Prep (AB Shoulder)	SF	0	\$0.30	\$0
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	\$0
14	Signing and Striping (36' ROW)*	LF	3770	\$15.00	\$56,600
15	Traffic Signals	EA	0	\$320,000.00	\$0
16	Future Traffic Signal	EA	0	\$275,000.00	\$0
17	Signalized Intersection	EA	0	\$900,000.00	\$0
18	Sidewalk, Concrete	SF	37700	\$6.00	\$226,200
19	Roundabout	EA	0	\$100,000.00	\$0
20	Joint Trench	LF	3770	\$115.00	\$433,600
21	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	\$0
22	Type 5 Curb Median	LF	0	\$12.00	\$0
23	Median Landscaping	SF	0	\$4.50	\$0
24	Frontage Landscaping	SF	0	\$4.50	\$0
25	Signal Conduit and Wiring	EA	0	\$75,000.00	\$0
26	Curb and Gutter	LF	7540	\$27.00	\$203,600
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	\$0
28	Irrigation Sleeves	LF	0	\$15.00	\$0
29	Street Lights (every 150 LF)	EA	25	\$6,000.00	\$150,000
30	Sawcut and Pavement Removal Median	<u>LF</u> LF	0	\$20.00	\$0
31	Sawcut and Pavement Removal		0	\$3.00	\$0
32	Reconstruct Ditches	LF	0	\$3.00	\$0
33	Erosion Control	LF	3770	\$25.00	\$94,300
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	\$0 \$0
35	ROW Acquisition (Oak Tree Lane - North) **  ROW Acquisition (Oak Tree Lane - South) ***	LS LS		\$500,000.00	\$0 \$0
36 37	Grind and Remove Pavement	SF	0	\$50,000.00	\$0 \$0
38		SF SF	0	\$3.00 \$2.00	\$0 \$0
	Grind and Overlay		1		
39	Retrofit Utilities	EA EA	0	\$3,000.00	\$0 \$0
40 41	Dewatering - Ferrari Ranch Road  Dewatering - Oak Tree near So. Ingram Slough	EA EA	1	\$25,000.00 \$50,000.00	\$0 \$0
	5 5	EA EA	0	\$75,000.00	\$0 \$0
42	Dewatering - Oak Tree near new lake Golf Course Fence and Netting	LF	0	\$75,000.00	\$0 \$0
		LF	0	\$45.00	\$0 \$0
44 45	Split Rail Fencing FRR Supplemental Topo + Aerial Topo	JOB	0	\$45.00	\$0 \$0
45	Remediation Trench and Monitoring	JOB	0	\$12,500.00	\$0 \$0
46	Traffic Control	JOB	0	\$1,000,000.00	\$0 \$0
47	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	\$0 \$0
	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	+	\$5,500,000.00	\$0 \$0
49	Construction Total:	EA	0	\$5,500,000.00	\$2,046,700
	Construction Fotal:				عد,040,700

<sup>\*</sup> Cost per linear foot of roadway.

Contingency Based upon Hard Costs (15/): \$307,000 Soft Costs Contingency (17/): \$347,900

TOTAL CIRCULATION \$2,701,600

 $<sup>\</sup>ensuremath{^{**}}$  ROW Acquisition includes mapping, purchasing the land,

<sup>\*\*\*</sup> ROW Acquisition includes mapping.



Engineer's Opinion of Costs Village 1 - Backbone Roadway System Phase 7 Summary

	' Summary				
Item #	Description	Unit	Quantity	Unit Price	Amount
Backb	one Roadway System				
1	Mobilization	JOB	2	\$50,000.00	\$100,000
2	Excavation	CY	0	\$7.00	\$0
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	15210	\$1.80	\$27,400
4	16" AB (assumes a Traffic Index of 9)	SF	42760	\$2.25	\$96,200
5	5" AC (assumes a Traffic Index of 9)	SF	42760	\$2.70	\$115,500
6	18" AB (assumes a Traffic Index of 11)	SF	0	\$2.50	\$0
7	7" AC (assumes a Traffic Index of 11)	SF	0	\$4.00	\$0
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	\$0
9	4" AB Shoulder (2' width)	SF	0	\$1.20	\$0
10	Subgrade Street Prep (Street)	SF	42760	\$0.25	\$10,700
11	Subgrade Prep (Curb & Gutter)	SF	15210	\$0.30	\$4,600
12	Subgrade Prep (AB Shoulder)	SF	0	\$0.30	\$0
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	\$0
14	Signing and Striping (36' ROW)*	LF	3110	\$15.00	\$46,700
15	Traffic Signals	EA	0	\$320,000.00	\$0
16	Future Traffic Signal	EA	0	\$275,000.00	\$0
17	Signalized Intersection	EA	0	\$900,000.00	\$0
18	Sidewalk, Concrete	SF	5880	\$6.00	\$35,300
19	Roundabout	EA	0	\$100,000.00	\$0
20	Joint Trench	LF	3110	\$115.00	\$357,700
21	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	\$0
22	Type 5 Curb Median	LF	0	\$12.00	\$0
23	Median Landscaping	SF	5880	\$4.50	\$26,500
24	Frontage Landscaping	SF	0	\$4.50	\$0
25	Signal Conduit and Wiring	EA	0	\$75,000.00	\$0
26	Curb and Gutter	LF	3110	\$27.00	\$84,000
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	\$0
28	Irrigation Sleeves	LF	0	\$15.00	\$0
29	Street Lights (every 150 LF)	EA	22	\$6,000.00	\$132,000
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	\$0
31	Sawcut and Pavement Removal	LF	2130	\$3.00	\$6,400
32	Reconstruct Ditches	LF	0	\$3.00	\$0
33	Erosion Control	LF	3110	\$25.00	\$77,800
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	\$0
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	\$0
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	\$0
37	Grind and Remove Pavement	SF	0	\$3.00	\$0
38	Grind and Overlay	SF	0	\$2.00	\$0
39	Retrofit Utilities	EA	0	\$3,000.00	\$0
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	\$0
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	\$0
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	\$0
43	Golf Course Fence and Netting	LF	550	\$133.00	\$73,200
44	Split Rail Fencing	LF	980	\$45.00	\$44,100
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	\$0
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	\$0
47	Traffic Control	JOB	1	\$100,000.00	\$100,000
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	\$0
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	1	\$5,500,000.00	\$5,500,000
	Construction Total:				\$6,838,100

<sup>\*</sup> Cost per linear foot of roadway.

Contingency Based upon Hard Costs (15/): \$1,025,700 Soft Costs Contingency (17/): \$1,162,500

TOTAL CIRCULATION \$9,026,300

 $<sup>\</sup>ensuremath{^{**}}$  ROW Acquisition includes mapping, purchasing the land,

<sup>\*\*\*</sup> ROW Acquisition includes mapping.



**Engineer's Opinion of Costs** Village 1 - Backbone Roadway System Phase 7 Oak Tree I ane 12

	Oak Tree Lane 12	11	0	Hair B.	A
Item #	Description	Unit	Quantity	Unit Price	Amount
Backbo	one Roadway System				
1	Mobilization	JOB	1	\$50,000.00	\$50,000
2	Excavation	CY	0	\$7.00	\$(
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	8820	\$1.80	\$15,900
4	16" AB (assumes a Traffic Index of 9)	SF	21560	\$2.25	\$48,500
5	5" AC (assumes a Traffic Index of 9)	SF	21560	\$2.70	\$58,300
6	18" AB (assumes a Traffic Index of 11)	SF	0	\$2.50	\$(
7	7" AC (assumes a Traffic Index of 11)	SF	0	\$4.00	\$0
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	\$0
9	4" AB Shoulder (2' width)	SF	0	\$1.20	\$0
10	Subgrade Street Prep (Street)	SF	21560	\$0.25	\$5,400
11	Subgrade Prep (Curb & Gutter)	SF	8820	\$0.30	\$2,700
12	Subgrade Prep (AB Shoulder)	SF	0	\$0.30	\$0
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	\$0
14	Signing and Striping (36' ROW)*	LF	980	\$15.00	\$14,700
15	Traffic Signals	EA	0	\$320,000.00	\$0
16	Future Traffic Signal	EA	0	\$275,000.00	\$0
17	Signalized Intersection	EA	0	\$900,000.00	\$0
18	Sidewalk, Concrete	SF	5880	\$6.00	\$35,300
19	Roundabout	EA	0	\$100,000.00	\$0
20	Joint Trench	LF	980	\$115.00	\$112,700
21	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	\$0
22	Type 5 Curb Median	LF	0	\$12.00	\$0
23	Median Landscaping	SF	5880	\$4.50	\$26,500
24	Frontage Landscaping	SF	0	\$4.50	\$0
25	Signal Conduit and Wiring	EA	0	\$75,000.00	\$0
26	Curb and Gutter	LF	980	\$27.00	\$26,500
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	\$0
28	Irrigation Sleeves	LF	0	\$15.00	\$0
29	Street Lights (every 150 LF)	EA	7	\$6,000.00	\$42,000
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	\$0
31	Sawcut and Pavement Removal	LF	0	\$3.00	\$0
32	Reconstruct Ditches	LF	0	\$3.00	\$0
33	Erosion Control	LF	980	\$25.00	\$24,500
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	\$0
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	\$0
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	\$0
37	Grind and Remove Pavement	SF	0	\$3.00	\$0
38	Grind and Overlay	SF	0	\$2.00	\$0
39	Retrofit Utilities	EA	0	\$3,000.00	\$0
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	\$0
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	\$0
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	\$0
43	Golf Course Fence and Netting	LF	550	\$133.00	\$73,200
44	Split Rail Fencing	LF	980	\$45.00	\$44,100
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	\$0
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	\$0
47	Traffic Control	JOB	0	\$100,000.00	\$0
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	\$(
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	1	\$5,500,000.00	\$5,500,000
	Construction Total:				\$6,080,300

<sup>\*</sup> Cost per linear foot of roadway.

Contingency Based upon Hard Costs (15/): \$912,000 Soft Costs Contingency (17/): \$1,033,700

**TOTAL CIRCULATION** \$8,026,000

<sup>\*\*</sup> ROW Acquisition includes mapping, purchasing the land,

<sup>\*\*\*</sup> ROW Acquisition includes mapping.



Engineer's Opinion of Costs Village 1 - Backbone Roadway System Phase 7 Virginiatown Road 1

Item #	Description	Unit	Quantity	Unit Price	Amount
Backb	one Roadway System				
1	Mobilization	JOB	0.5	\$50,000.00	\$25,000
2	Excavation	CY	0.5	\$7.00	\$23,000
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	6090	\$1.80	\$11,000
4	16" AB (assumes a Traffic Index of 9)	SF	20300	\$2.25	\$45,700
5	5" AC (assumes a Traffic Index of 9)	SF	20300	\$2.70	\$54,800
6	18" AB (assumes a Traffic Index of 11)	SF	0	\$2.50	\$0
7	7" AC (assumes a Traffic Index of 11)	SF	0	\$4.00	\$0
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	\$0
9	4" AB Shoulder (2' width)	SF	0	\$1.20	\$0
10	Subgrade Street Prep (Street)	SF	20300	\$0.25	\$5,100
11	Subgrade Prep (Curb & Gutter)	SF	6090	\$0.30	\$1,800
12	Subgrade Prep (AB Shoulder)	SF	0	\$0.30	\$0
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	\$0
14	Signing and Striping (36' ROW)*	LF	2030	\$15.00	\$30,500
15	Traffic Signals	EA	0	\$320,000.00	\$0
16	Future Traffic Signal	EA	0	\$275,000.00	\$0
17	Signalized Intersection	EA	0	\$900,000.00	\$0
18	Sidewalk, Concrete	SF	0	\$6.00	\$0
19	Roundabout	EA	0	\$100,000.00	\$0
20	Joint Trench	LF	2030	\$115.00	\$233,500
21	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	\$0
22	Type 5 Curb Median	LF	0	\$12.00	\$0
23	Median Landscaping	SF	0	\$4.50	\$0
24	Frontage Landscaping	SF	0	\$4.50	\$0
25	Signal Conduit and Wiring	EA	0	\$75,000.00	\$0
26	Curb and Gutter	LF	2030	\$27.00	\$54,800
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	\$0
28	Irrigation Sleeves	LF	0	\$15.00	\$0
29	Street Lights (every 150 LF)	EA	14	\$6,000.00	\$84,000
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	\$0
31	Sawcut and Pavement Removal	LF	2030	\$3.00	\$6,100
32	Reconstruct Ditches	LF	0	\$3.00	\$0
33	Erosion Control	LF	2030	\$25.00	\$50,800
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	\$0
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	\$0
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	\$0
37	Grind and Remove Pavement	SF	0	\$3.00	\$0
38	Grind and Overlay	SF	0	\$2.00	\$0
39	Retrofit Utilities	EA	0	\$3,000.00	\$0
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	\$0
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	\$0
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	\$0
43	Golf Course Fence and Netting	LF	0	\$133.00	\$0
44	Split Rail Fencing	LF	0	\$45.00	\$0
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	\$0
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	\$0
47	Traffic Control	JOB	1	\$100,000.00	\$50,000
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	\$0
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	\$0
	Construction Total:				\$653,100

<sup>\*</sup> Cost per linear foot of roadway.

Contingency Based upon Hard Costs (15/): \$98,000

Soft Costs Contingency (17/): \$111,000

TOTAL CIRCULATION \$862,100

<sup>\*\*</sup> ROW Acquisition includes mapping, purchasing the land,

<sup>\*\*\*</sup> ROW Acquisition includes mapping.



Engine	Engineer's Opinion of Costs							
	1 - Backbone Roadway System							
_	7 Virginiatown Road 3							
Item #	Description	Unit	Quantity	Unit Price	Amount			
		9.111						
Backh	one Roadway System							
Dackb	one Roadway Cystem							
	Mobilization	IOD	0.5	¢50,000,00	ć2F 000			
1	Excavation	JOB	0.5	\$50,000.00	\$25,000			
3	4" AB (Under Curb & Gutter and Sidewalk)	CY SF	300	\$7.00 \$1.80	\$0 \$500			
4	16" AB (assumes a Traffic Index of 9)	SF	900	\$2.25	\$2,000			
5	5" AC (assumes a Traffic Index of 9)	SF	900	\$2.70	\$2,400			
6	18" AB (assumes a Traffic Index of 11)	SF	0	\$2.50	\$2,400			
7	7" AC (assumes a Traffic Index of 11)	SF	0	\$4.00	\$0			
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	\$0			
9	4" AB Shoulder (2' width)	SF	0	\$1.20	\$0			
10	Subgrade Street Prep (Street)	SF	900	\$0.25	\$200			
11	Subgrade Prep (Curb & Gutter)	SF	300	\$0.30	\$100			
12	Subgrade Prep (AB Shoulder)	SF	0	\$0.30	\$0			
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	\$0			
14	Signing and Striping (36' ROW)*	LF	100	\$15.00	\$1,500			
15	Traffic Signals	EA	0	\$320,000.00	\$0			
16	Future Traffic Signal	EA	0	\$275,000.00	\$0			
17	Signalized Intersection	EA	0	\$900,000.00	\$0			
18	Sidewalk, Concrete	SF	0	\$6.00	\$0			
19	Roundabout	EA	0	\$100,000.00	\$0			
20	Joint Trench	LF	100	\$115.00	\$11,500			
21	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	\$0			
22	Type 5 Curb Median	LF	0	\$12.00	\$0			
23	Median Landscaping	SF	0	\$4.50	\$0			
24	Frontage Landscaping	SF	0	\$4.50	\$0			
25	Signal Conduit and Wiring	EA	0	\$75,000.00	\$0			
26	Curb and Gutter	LF	100	\$27.00	\$2,700			
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	\$0			
28	Irrigation Sleeves	LF	0	\$15.00	\$0			
29	Street Lights (every 150 LF)	EA	1	\$6,000.00	\$6,000			
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	\$0			
31	Sawcut and Pavement Removal	LF	100	\$3.00	\$300			
32	Reconstruct Ditches	LF	0	\$3.00	\$0			
33	Erosion Control	LF	100	\$25.00	\$2,500			
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	\$0			
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	\$0			
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	\$0			
37	Grind and Remove Pavement	SF	0	\$3.00	\$0			
38	Grind and Overlay	SF	0	\$2.00	\$0			
39	Retrofit Utilities	EA	0	\$3,000.00	\$0			
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	\$0			
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	\$0 \$0			
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	\$0 \$0			
43	Golf Course Fence and Netting	LF	0	\$133.00	\$0 \$0			
44	Split Rail Fencing	LF	0	\$45.00	\$0 \$0			
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	\$0 \$0			
46	Remediation Trench and Monitoring Traffic Control	JOB JOB	0	\$1,000,000.00				
47 48	Traffic Control  Traffic Control Oak Tree Lane	JOB	1 0	\$100,000.00 \$250,000.00	\$50,000 \$0			
48	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	\$0 \$0			
73	Construction Total:		<u> </u>	Ç3,300,000.00	\$104,700			
	Construction Total. \$3504,700							

<sup>\*</sup> Cost per linear foot of roadway.

Contingency Based upon Hard Costs (15/): \$15,700 Soft Costs Contingency (17/): \$17,800

TOTAL CIRCULATION \$138,200

<sup>\*\*</sup> ROW Acquisition includes mapping, purchasing the land, \*\*\* ROW Acquisition includes mapping.

## APPENDIX 7 Lincoln Village 1 Specific Plan Infrastructure Finance Plan Circulation Phasing



	Facility	Begin Improvement Plan Design by Building Permit [3] [4]	Bid Awarded by Building Permit [3] [4]	In Use by Building Permit [3] [4]
	Infrastructure Elements + PFE Eligible Infrastructure Elements [1]			
1	McBean Park Drive and State Route 193 - North Side From Ferrari Ranch Road to 900 LF past Oak Tree Lane - 2 Westbound Lanes and 1 Eastbound Lane, including traffic signals	1000	1300	1400
2	Oak Tree Lane - McBean Park Drive/State Route 193 to Sierra College Boulevard or State Route 193, 2 lanes with landscaped median and traffic signal at McBean Park Drive and Sierra College Boulevard	500 EDU's [2]	700 EDU's [2]	1000 EDU's [2]
3	State Route 193, North Side - from 900 LF past Oak Tree Lane to the Village 1 Boundary, 2 Westbound Lanes and 1 Eastbound Lane, East of the North South Collector and 1 lane each direction after that, including traffic signals	1000	1300	1400
4	McBean Park Drive and State Route 193 - South Side from Ferrari Ranch Road to 900 LF past Oak Tree Lane, 1 eastbound lane	1900	2100	2300
5	State Route 193 - from 900 LF past Oak Tree Lane to the Village 1 Boundary, south side improvements 1 eastbound lane	2500	2700	3000
6	Oak Tree Lane - Ferrari Ranch Road to Virginia Town Road, 2 lanes with landscaped median, 2 lane bridge, traffic signal at Virginatown Road and traffic signal at Ferrari Ranch Road and Oak Tree Lane	3000	3200	3500
7	Ferrari Ranch Road - McBean Park Drive to La Bella Rosa Entrance	As required for development	As required for development	As required for development
8	Oak Tree Lane - McBean Park Drive/State Route 193 to La Bella Rosa Entrance, 2 lanes with landscaped median and traffic signal at McBean Park Drive and Ferrari Ranch Road	As required for development	As required for development	As required for development
9	Virginiatown Road - widen south side to ultimate width	As required for development	As required for development	As required for development
	Infrastructure Elements with No PFE Eligible Infrastructure Elements			
10	Ferrari Ranch Road - La Bella Rosa Entrance to Oak Tree Lane, 2 Lanes with Landscaped Median.	By the 91st building unit in La Bella Rosa or 3 years after 1st La Bella Rosa building unit	By the 91st building unit in La Bella Rosa or 3 years after 1st La Bella Rosa building unit	By the 91st building unit in La Bella Rosa or 3 years after 1st La Bella Rosa building unit
11	Oak Tree Lane - La Bella Rosa Entrance to Ferrari Ranch Road, 2 lanes with landscaped median	2700	2900	3200
	Only PFE Eligible Infrastructure Elements [1]	1	1	
12	Ferrari Ranch Road - McBean Park Drive South to Existing Bridge - 2 westerly lanes including median landscaping	500	900	1200
13	Ferrari Ranch Road - McBean Park Drive South to Existing Bridge - Frontage landscaping on the west side of the road	1500	1700	2000
14	Sierra College Boulevard and Twelve Bridges Drive Intersection - traffic signal and widening as necessary for the signal operation	Dictated by Warrants	Dictated by Warrants	Dictated by Warrants

<sup>[1]</sup> PFE Eligible Infrastructure items will be paid with available Village 1 Impact Fees collected.

<sup>[2]</sup> Assumes 1000 edu south of McBean Park Drive (limited to Village 1 projects, Excludes Crocker Knoll and VMU parcel on the corner of Oak Tree Lane and McBean Park Drive).

<sup>[3]</sup> Staff has flexibility to amend thresholds by up to 300 building permits to meet change in improvement timing based upon construction conditions or actual construction costs incurred.

<sup>[4]</sup> If available PFE funding is decreased due to allocation of money to critical facilities, then Staff shall have ability to adjust thresholds for facilities to be constructed.

## APPENDIX 8 Lincoln Village 1 Specific Plan Infrastructure Finance Plan Trails





Engineer's Opinion of Costs	
Village 1	
Trails Summary by Phase	
Description	Trails
Infrastructure Costs	
Phase 1	\$282,200
Phase 2	\$471,400
Phase 3	\$377,400
Phase 4	\$74,200
Phase 5	\$800,500
Phase 6	\$206,200
Phase 7	\$177,600
Phase 8	\$243,200
Subtotal	\$2,632,700



Engineer	's Opinion of Costs				
Village 1	•				
_					
Summar					
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	ture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	90880	\$3.25	\$295,300
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	157650	\$3.75	\$591,300
3	Subgrade Prep (AC Trail)	SF	248530	\$0.30	\$74,500
4	Signing and Striping (10' ROW)	LF	15765	\$3.00	\$47,300
Sub	total Infrastructure Trails Construction Total:				\$1,008,400
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	226600	\$3.75	\$849,800
3	Subgrade Prep (AC Trail)	SF	226600	\$0.30	\$68,100
4	Signing and Striping (10' ROW)	LF	22660	\$3.00	\$68,100
	Subtotal Builders Trails Construction Total:		•	<del>.</del>	\$986,000
	Subtotal Trails Construction Total:				\$1,994,400

Contingency Based upon Hard Costs (15/): \$299,200

Soft Costs Contingency (17/): \$339,100

**TOTAL TRAILS** \$2,632,700



Engineer	's Opinion of Costs				
Village 1	- Trails				
Phase 1	Summary				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	ture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	14160	\$3.25	\$46,000
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	37600	\$3.75	\$141,000
3	Subgrade Prep (AC Trail)	SF	51760	\$0.30	\$15,500
4	Signing and Striping (10' ROW)	LF	3760	\$3.00	\$11,300
Sub	total Infrastructure Trails Construction Total:				\$213,800
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
	Subtotal Builders Trails Construction Total:			•	\$0
	Subtotal Trails Construction Total:				\$213,800

Contingency Based upon Hard Costs (15/): \$32,100

Soft Costs Contingency (17/): \$36,300

TOTAL TRAILS \$282,200



Engineer	's Opinion of Costs				
Village 1	<u>.</u>				
_	Ferrari Ranch Road 1				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	ture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	37600	\$3.75	\$141,000
3	Subgrade Prep (AC Trail)	SF	37600	\$0.30	\$11,300
4	Signing and Striping (10' ROW)	LF	3760	\$3.00	\$11,300
Sub	total Infrastructure Trails Construction Total:				\$163,600
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
					\$0
	Subtotal Trails Construction Total:				\$163,600

Contingency Based upon Hard Costs (15/): \$24,600

Soft Costs Contingency (17/): \$27,800

TOTAL TRAILS \$216,000



Engineer	r's Opinion of Costs				
Village 1	- Trails				
	McBean Park Drive 1				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	ture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	2800	\$3.25	\$9,100
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	2800	\$0.30	\$800
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:				\$9,900
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
	Subtotal Builders Trails Construction Total:			•	\$0
	Subtotal Trails Construction Total:			•	\$9,900

Contingency Based upon Hard Costs (15/): \$1,500

Soft Costs Contingency (17/): \$1,700

TOTAL TRAILS \$13,100



Enginee	r's Opinion of Costs				
Village 1	•				
	McBean Park Drive 2				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	11360	\$3.25	\$36,900
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	11360	\$0.30	\$3,400
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:			•	\$40,300
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
	Subtotal Builders Trails Construction Total:			•	\$0
	Subtotal Trails Construction Total:				\$40,300

Contingency Based upon Hard Costs (15/): \$6,000

Soft Costs Contingency (17/): \$6,800

TOTAL TRAILS \$53,100



Enginee	r's Opinion of Costs				
Village 1	•				
_	Summary				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	ture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:				\$0
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	82100	\$3.75	\$307,900
3	Subgrade Prep (AC Trail)	SF	82100	\$0.30	\$24,600
4	Signing and Striping (10' ROW)	LF	8210	\$3.00	\$24,600
	Subtotal Builders Trails Construction Total:				\$357,100
	Subtotal Trails Construction Total:				\$357,100

Contingency Based upon Hard Costs (15/): \$53,600

Soft Costs Contingency (17/): \$60,700

TOTAL TRAILS \$471,400



_	's Opinion of Costs				
Village 1					
Phase 2	Turkey Creek Estates 1				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	ture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:				\$0
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	61850	\$3.75	\$232,000
3	Subgrade Prep (AC Trail)	SF	61850	\$0.30	\$18,500
4	Signing and Striping (10' ROW)	LF	6185	\$3.00	\$18,500
	Subtotal Builders Trails Construction Total:			•	\$269,000
	Subtotal Trails Construction Total:				\$269,000

Contingency Based upon Hard Costs (15/): \$40,400

Soft Costs Contingency (17/): \$45,700

TOTAL TRAILS \$355,100



Engineer	r's Opinion of Costs				
Village 1	- Trails				
_	Hidden Hills 1				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	ture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:				\$0
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	20250	\$3.75	\$75,900
3	Subgrade Prep (AC Trail)	SF	20250	\$0.30	\$6,100
4	Signing and Striping (10' ROW)	LF	2025	\$3.00	\$6,100
	Subtotal Builders Trails Construction Total:				\$88,100
	Subtotal Trails Construction Total:				\$88,100

Contingency Based upon Hard Costs (15/): \$13,200

Soft Costs Contingency (17/): \$15,000

TOTAL TRAILS \$116,300



<b>Enginee</b>	r's Opinion of Costs				
Village 1	- Trails				
Phase 3	Summary				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	15200	\$3.25	\$49,400
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	17400	\$3.75	\$65,300
3	Subgrade Prep (AC Trail)	SF	32600	\$0.30	\$9,800
4	Signing and Striping (10' ROW)	LF	1740	\$3.00	\$5,200
Sub	total Infrastructure Trails Construction Total:				\$129,700
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	35900	\$3.75	\$134,600
3	Subgrade Prep (AC Trail)	SF	35900	\$0.30	\$10,800
4	Signing and Striping (10' ROW)	LF	3590	\$3.00	\$10,800
	Subtotal Builders Trails Construction Total:				\$156,200
	Subtotal Trails Construction Total:				\$285,900

Contingency Based upon Hard Costs (15/): \$42,900

Soft Costs Contingency (17/): \$48,600

TOTAL TRAILS \$377,400



Engineer	's Opinion of Costs				
Village 1	<u>.</u>				
	Ferrari Ranch Road 2				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	ture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	17400	\$3.75	\$65,300
3	Subgrade Prep (AC Trail)	SF	17400	\$0.30	\$5,300
4	Signing and Striping (10' ROW)	LF	1740	\$3.00	\$5,200
Sub	total Infrastructure Trails Construction Total:				\$75,800
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
	Subtotal Builders Trails Construction Total:				\$0
	Subtotal Trails Construction Total:				\$75,800

Contingency Based upon Hard Costs (15/): \$11,300

Soft Costs Contingency (17/): \$13,000

TOTAL TRAILS \$100,100



Enginee	r's Opinion of Costs				
Village 1	•				
	McBean Park Drive 3				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	2400	\$3.25	\$7,800
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	2400	\$0.30	\$700
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:			•	\$8,500
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
	Subtotal Builders Trails Construction Total:			•	\$0
	Subtotal Trails Construction Total:				\$8,500

Contingency Based upon Hard Costs (15/): \$1,300

Soft Costs Contingency (17/): \$1,400

TOTAL TRAILS \$11,200



Engineer	's Opinion of Costs				
Village 1	<u>.</u>				
	North of McBean Park Drive 4				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	ture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	12800	\$3.25	\$41,600
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	12800	\$0.30	\$3,800
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:				\$45,400
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
	Subtotal Builders Trails Construction Total:				\$0
	Subtotal Trails Construction Total:			•	\$45,400

Contingency Based upon Hard Costs (15/): \$6,800

Soft Costs Contingency (17/): \$7,700

TOTAL TRAILS \$59,900



Engineer	r's Opinion of Costs				
Village 1	•				
	Ingram Slough 2				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	ture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:				\$0
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	15700	\$3.75	\$58,800
3	Subgrade Prep (AC Trail)	SF	15700	\$0.30	\$4,800
4	Signing and Striping (10' ROW)	LF	1570	\$3.00	\$4,800
	Subtotal Builders Trails Construction Total:				\$68,400
	Subtotal Trails Construction Total:				\$68,400

Contingency Based upon Hard Costs (15/): \$10,300

Soft Costs Contingency (17/): \$11,600

TOTAL TRAILS \$90,300

Date: 8/9/2016



Enginee	r's Opinion of Costs				
Village 1	·				
Phase 3	Ingram Slough 3				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	ture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:				\$0
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	5800	\$3.75	\$21,800
3	Subgrade Prep (AC Trail)	SF	5800	\$0.30	\$1,700
4	Signing and Striping (10' ROW)	LF	580	\$3.00	\$1,700
	Subtotal Builders Trails Construction Total:				\$25,200
	Subtotal Trails Construction Total:				\$25,200

Contingency Based upon Hard Costs (15/): \$3,800

Soft Costs Contingency (17/): \$4,300

TOTAL TRAILS \$33,300



Enginee	r's Opinion of Costs				
Village 1	- Trails				
Phase 3	Oak Tree Lane 1				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:				\$0
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	14400	\$3.75	\$54,000
3	Subgrade Prep (AC Trail)	SF	14400	\$0.30	\$4,300
4	Signing and Striping (10' ROW)	LF	1440	\$3.00	\$4,300
	Subtotal Builders Trails Construction Total:				\$62,600
	Subtotal Trails Construction Total:				\$62,600

Contingency Based upon Hard Costs (15/): \$9,400

Soft Costs Contingency (17/): \$10,600

TOTAL TRAILS \$82,600



Enginoo	r's Opinion of Costs				
	•				
Village 1					
	Summary		T		
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	ture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	6000	\$3.75	\$22,500
3	Subgrade Prep (AC Trail)	SF	6000	\$0.30	\$1,800
4	Signing and Striping (10' ROW)	LF	600	\$3.00	\$1,800
Sub	total Infrastructure Trails Construction Total:				\$26,100
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	6900	\$3.75	\$25,900
3	Subgrade Prep (AC Trail)	SF	6900	\$0.30	\$2,100
4	Signing and Striping (10' ROW)	LF	690	\$3.00	\$2,100
	Subtotal Builders Trails Construction Total:		•	•	\$30,100
	Subtotal Trails Construction Total:				\$56,200

Contingency Based upon Hard Costs (15/): \$8,400

Soft Costs Contingency (17/): \$9,600

TOTAL TRAILS \$74,200



Enginee	r's Opinion of Costs				
Village 1	•				
	Regional Park 4				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	ture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:				\$0
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	6900	\$3.75	\$25,900
3	Subgrade Prep (AC Trail)	SF	6900	\$0.30	\$2,100
4	Signing and Striping (10' ROW)	LF	690	\$3.00	\$2,100
	Subtotal Builders Trails Construction Total:				\$30,100
	Subtotal Trails Construction Total:			·	\$30,100

Contingency Based upon Hard Costs (15/): \$4,500

Soft Costs Contingency (17/): \$5,200

TOTAL TRAILS \$39,800



Engineer	r's Opinion of Costs				
Village 1	•				
_	To Tank 1				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	ture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	6000	\$3.75	\$22,500
3	Subgrade Prep (AC Trail)	SF	6000	\$0.30	\$1,800
4	Signing and Striping (10' ROW)	LF	600	\$3.00	\$1,800
Sub	total Infrastructure Trails Construction Total:				\$26,100
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
	Subtotal Builders Trails Construction Total:				\$0
	Subtotal Trails Construction Total:				\$26,100

Contingency Based upon Hard Costs (15/): \$3,900

Soft Costs Contingency (17/): \$4,400

TOTAL TRAILS \$34,400



Enginee	r's Opinion of Costs				
Village 1	•				
_					
	Summary		T T		
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	55920	\$3.25	\$181,700
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	58850	\$3.75	\$220,700
3	Subgrade Prep (AC Trail)	SF	114770	\$0.30	\$34,400
4	Signing and Striping (10' ROW)	LF	5885	\$3.00	\$17,700
Sub	total Infrastructure Trails Construction Total:				\$454,500
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	34900	\$3.75	\$130,900
3	Subgrade Prep (AC Trail)	SF	34900	\$0.30	\$10,500
4	Signing and Striping (10' ROW)	LF	3490	\$3.00	\$10,500
	Subtotal Builders Trails Construction Total:			•	\$151,900
	Subtotal Trails Construction Total:				\$606,400

Contingency Based upon Hard Costs (15/): \$91,000

Soft Costs Contingency (17/): \$103,100

TOTAL TRAILS \$800,500



Engineer	's Opinion of Costs				
Village 1	- Trails				
Phase 5	South of State Route 193 1				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	ture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	6080	\$3.25	\$19,800
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	6080	\$0.30	\$1,800
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:				\$21,600
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
	Subtotal Builders Trails Construction Total:			•	\$0
	Subtotal Trails Construction Total:			•	\$21,600

Contingency Based upon Hard Costs (15/): \$3,200

Soft Costs Contingency (17/): \$3,700

TOTAL TRAILS \$28,500



Enginee	r's Opinion of Costs				
Village 1	- Trails				
Phase 5	State Route 193 2				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	ture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	15520	\$3.25	\$50,400
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	15520	\$0.30	\$4,700
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:				\$55,100
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
	Subtotal Builders Trails Construction Total:				\$0
	Subtotal Trails Construction Total:				\$55,100

Contingency Based upon Hard Costs (15/): \$8,300

Soft Costs Contingency (17/): \$9,400

TOTAL TRAILS \$72,800



Enginoo	r's Opinion of Costs				
	•				
Village 1					
	State Route 193 3				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	4720	\$3.25	\$15,300
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	4720	\$0.30	\$1,400
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:				\$16,700
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
	Subtotal Builders Trails Construction Total:				\$0
	Subtotal Trails Construction Total:				\$16,700

Contingency Based upon Hard Costs (15/): \$2,500

Soft Costs Contingency (17/): \$2,800

TOTAL TRAILS \$22,000



Enginee	r's Opinion of Costs				
Village 1	- Trails				
Phase 5	State Route 193 4				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	ture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	13920	\$3.25	\$45,200
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	13920	\$0.30	\$4,200
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:				\$49,400
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
	Subtotal Builders Trails Construction Total:				\$0
	Subtotal Trails Construction Total:				\$49,400

Contingency Based upon Hard Costs (15/): \$7,400

Soft Costs Contingency (17/): \$8,400

TOTAL TRAILS \$65,200



Engineer	r's Opinion of Costs				
Village 1	•				
	se 5 State Route 193 5				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	ture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	8000	\$3.25	\$26,000
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	8000	\$0.30	\$2,400
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:				\$28,400
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
	Subtotal Builders Trails Construction Total:				\$0
	Subtotal Trails Construction Total:				\$28,400

Contingency Based upon Hard Costs (15/): \$4,300

Soft Costs Contingency (17/): \$4,800

TOTAL TRAILS \$37,500



Engineer	do Oninian of Coots				
	's Opinion of Costs				
Village 1					
	Regional Park 1				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	ture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	5550	\$3.75	\$20,800
3	Subgrade Prep (AC Trail)	SF	5550	\$0.30	\$1,700
4	Signing and Striping (10' ROW)	LF	555	\$3.00	\$1,700
Sub	total Infrastructure Trails Construction Total:				\$24,200
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
	Subtotal Builders Trails Construction Total:			•	\$0
	Subtotal Trails Construction Total:				\$24,200

Contingency Based upon Hard Costs (15/): \$3,600

Soft Costs Contingency (17/): \$4,100

TOTAL TRAILS \$31,900



Engineer	's Opinion of Costs				
Village 1	•				
_	Regional Park 2				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	ture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	53300	\$3.75	\$199,900
3	Subgrade Prep (AC Trail)	SF	53300	\$0.30	\$15,900
4	Signing and Striping (10' ROW)	LF	5330	\$3.00	\$16,000
Sub	total Infrastructure Trails Construction Total:				\$231,800
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
	Subtotal Builders Trails Construction Total:				\$0
	Subtotal Trails Construction Total:				\$231,800

Contingency Based upon Hard Costs (15/): \$34,800

Soft Costs Contingency (17/): \$39,400

TOTAL TRAILS \$306,000



Enginee	r's Opinion of Costs				
Village 1	•				
	Regional Park 3				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	ture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:				\$0
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	4150	\$3.75	\$15,600
3	Subgrade Prep (AC Trail)	SF	4150	\$0.30	\$1,200
4	Signing and Striping (10' ROW)	LF	415	\$3.00	\$1,200
	Subtotal Builders Trails Construction Total:				\$18,000
	Subtotal Trails Construction Total:			·	\$18,000

Contingency Based upon Hard Costs (15/): \$2,700

Soft Costs Contingency (17/): \$3,100

TOTAL TRAILS \$23,800



Engineer	r's Opinion of Costs				
Village 1	•				
	North South Collector 1				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	ture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	7680	\$3.25	\$25,000
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	7680	\$0.30	\$2,300
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:				\$27,300
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
	Subtotal Builders Trails Construction Total:				\$0
	Subtotal Trails Construction Total:				\$27,300

Contingency Based upon Hard Costs (15/): \$4,100

Soft Costs Contingency (17/): \$4,600

TOTAL TRAILS \$36,000



Enginee	r's Opinion of Costs				
Village 1	•				
Phase 5	Ingram Slough 1				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:				\$0
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	8250	\$3.75	\$30,900
3	Subgrade Prep (AC Trail)	SF	8250	\$0.30	\$2,500
4	Signing and Striping (10' ROW)	LF	825	\$3.00	\$2,500
	Subtotal Builders Trails Construction Total:			•	\$35,900
	Subtotal Trails Construction Total:			·	\$35,900

Contingency Based upon Hard Costs (15/): \$5,400

Soft Costs Contingency (17/): \$6,100

TOTAL TRAILS \$47,400



Engineer	's Opinion of Costs				
Village 1	•				
	Ingram Slough 4				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	ture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:				\$0
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	22500	\$3.75	\$84,400
3	Subgrade Prep (AC Trail)	SF	22500	\$0.30	\$6,800
4	Signing and Striping (10' ROW)	LF	2250	\$3.00	\$6,800
	Subtotal Builders Trails Construction Total:				\$98,000
	Subtotal Trails Construction Total:				\$98,000

Contingency Based upon Hard Costs (15/): \$14,700

Soft Costs Contingency (17/): \$16,700

TOTAL TRAILS \$129,400



Engineer	's Opinion of Costs				
Village 1	- Trails				
Phase 6	Summary				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	ture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:				\$0
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	35900	\$3.75	\$134,600
3	Subgrade Prep (AC Trail)	SF	35900	\$0.30	\$10,800
4	Signing and Striping (10' ROW)	LF	3590	\$3.00	\$10,800
	Subtotal Builders Trails Construction Total:				\$156,200
	Subtotal Trails Construction Total:				\$156,200

Contingency Based upon Hard Costs (15/): \$23,400

Soft Costs Contingency (17/): \$26,600

TOTAL TRAILS \$206,200



Engineer	rla Oninian of Coata				
	r's Opinion of Costs				
Village 1					
Phase 6	Ingram Slough 6				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:				\$0
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	35900	\$3.75	\$134,600
3	Subgrade Prep (AC Trail)	SF	35900	\$0.30	\$10,800
4	Signing and Striping (10' ROW)	LF	3590	\$3.00	\$10,800
	Subtotal Builders Trails Construction Total:		•		\$156,200
	Subtotal Trails Construction Total:				\$156,200

Contingency Based upon Hard Costs (15/): \$23,400

Soft Costs Contingency (17/): \$26,600

TOTAL TRAILS \$206,200



Enginee	r's Opinion of Costs				
Village 1	- Trails				
Phase 7	Summary				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:				\$0
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	30900	\$3.75	\$115,900
3	Subgrade Prep (AC Trail)	SF	30900	\$0.30	\$9,300
4	Signing and Striping (10' ROW)	LF	3090	\$3.00	\$9,300
	Subtotal Builders Trails Construction Total:				\$134,500
_	Subtotal Trails Construction Total:	_	_		\$134,500

Contingency Based upon Hard Costs (15/): \$20,200

Soft Costs Contingency (17/): \$22,900

TOTAL TRAILS \$177,600



Engineer	r's Opinion of Costs				
Village 1	•				
	Ingram Slough 5				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	ture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:				\$0
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	30900	\$3.75	\$115,900
3	Subgrade Prep (AC Trail)	SF	30900	\$0.30	\$9,300
4	Signing and Striping (10' ROW)	LF	3090	\$3.00	\$9,300
	Subtotal Builders Trails Construction Total:				\$134,500
	Subtotal Trails Construction Total:				\$134,500

Contingency Based upon Hard Costs (15/): \$20,200

Soft Costs Contingency (17/): \$22,900

TOTAL TRAILS \$177,600



Enginee	r's Opinion of Costs				
Village 1					
_	Summary				
Item #	Description	Unit	Quantity	Unit Price	Amount
	2000.				
Trails					
Village 1					
Infrastruc	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	5600	\$3.25	\$18,200
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	37800	\$3.75	\$141,800
3	Subgrade Prep (AC Trail)	SF	43400	\$0.30	\$13,000
4	Signing and Striping (10' ROW)	LF	3780	\$3.00	\$11,300
Sub	total Infrastructure Trails Construction Total:				\$184,300
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
	Subtotal Builders Trails Construction Total:				\$0
	Subtotal Trails Construction Total:				\$184,300

Contingency Based upon Hard Costs (15/): \$27,600

Soft Costs Contingency (17/): \$31,300

TOTAL TRAILS \$243,200



Enginee	r's Opinion of Costs				
Village 1	- Trails				
Phase 8	Oak Tree Lane 2				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	ture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	5600	\$3.25	\$18,200
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	5600	\$0.30	\$1,700
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:				\$19,900
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
	Subtotal Builders Trails Construction Total:				\$0
	Subtotal Trails Construction Total:				\$19,900

Contingency Based upon Hard Costs (15/): \$3,000

Soft Costs Contingency (17/): \$3,400

TOTAL TRAILS \$26,300



Engineer	r's Opinion of Costs				
Village 1	- Trails, Landscaping and Parks				
Phase 8	Turkey Creek Golf Course 1				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails, I	_andscaping and Parks				
Village 1					
Infrastruc	ture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	37800	\$3.75	\$141,800
3	Subgrade Prep (AC Trail)	SF	37800	\$0.30	\$11,300
4	Signing and Striping (10' ROW)	LF	3780	\$3.00	\$11,300
Sub	total Infrastructure Trails Construction Total:				\$164,400
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
	Subtotal Builders Trails Construction Total:				\$0
	Subtotal Trails Construction Total:				\$164,400

Contingency Based upon Hard Costs (15/): \$24,600

Soft Costs Contingency (17/): \$27,900

TOTAL TRAILS \$216,900

## APPENDIX 9 Lincoln Village 1 Specific Plan Infrastructure Finance Plan Amenities Element (Non-Potable Water, Frontage Landscape & Regional Park Land Acquisition)





Engineer's Opinion of Costs	
Village 1	
Amenities Summary by Phase	
Description	Amenities
Infrastructure Costs	
Phase 1	\$1,171,500
Phase 2	\$342,600
Phase 3	\$3,080,300
Phase 4	\$390,700
Phase 5	\$563,000
Phase 6	\$164,400
Phase 7	\$184,600
Phase 8	\$0
Subtotal	\$5,897,100



	er's Opinion of Costs I - Amenities - Includes Non-Potable Water, Fro ry	ntage Lands	caping & Regior	nal Park Acquisit	ion
Item #	Description	Unit	Quantity	Unit Price	Amount
<b>AMENI</b>	TIES - Includes Non-Potable Water, Fronta	age Landsc	aping & Regio	nal Park Acquis	sition
1	6" Non-Potable Water Line	LF	22125	\$27.00	\$597,300
2	8" Non-Potable Water Line	LF	5945	\$30.00	\$178,400
3	10" Non-Potable Water Line	LF	2440	\$44.00	\$107,400
4	12" Non-Potable Water Line	LF	6800	\$45.00	\$306,100
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	4	\$25,000.00	\$100,000
6	Frontage Landscaping	SF	194200	\$4.50	\$874,000
7	Water Valves (Assume every 500')	EA	73	\$2,500.00	\$182,500
8	Booster Pump	EA	2	\$75,000.00	\$150,000
9	Pumping Station* / Filtration / Standpipe	EA	1	\$350,000.00	\$350,000
10	Flushing Hydrant (End of Line)	EA	3	\$6,000.00	\$18,000
11	Intake	EA	1	\$45,000.00	\$45,000
12	De-chlorination Station	EA	1	\$75,000.00	\$75,000
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	1	\$50,000.00	\$50,000
14	NID Water Diversion Gate	EA	1	\$15,000.00	\$15,000
15	Lake Grading	CY	109715	\$3.75	\$411,400
16	Lake Stabilization	SF	301710	\$1.33	\$401,300
	Construction Total:				\$3,861,400

Contingency Based upon Hard Costs (15%): \$579,200

Soft Costs Contingency (17%): \$656,500

Regional Park Acquisition\*\* \$800,000

TOTAL AMENITIES \$5,897,100

<sup>\*</sup> Assumes NID jurisdiction has expanded, therefore no additional Pumping Station is required near Regional Park.

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



Village	er's Opinion of Costs 1 - Amenities - Includes Non-Potable Water, Fro I Summary	ontage Lands	caping & Regior	nal Park Acquisit	ion
Item #	Description	Unit	Quantity	Unit Price	Amount
<b>AMENI</b>	TIES - Includes Non-Potable Water, Fronta	age Landsc	aping & Regio	nal Park Acqui	sition
				-	
1	6" Non-Potable Water Line	LF	6220	\$27.00	\$167,900
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0
3	10" Non-Potable Water Line	LF	2440	\$44.00	\$107,400
4	12" Non-Potable Water Line	LF	4950	\$45.00	\$222,800
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	3	\$25,000.00	\$75,000
6	Frontage Landscaping	SF	35750	\$4.50	\$160,900
7	Water Valves (Assume every 500')	EA	29	\$2,500.00	\$72,500
8	Booster Pump	EA	1	\$75,000.00	\$75,000
9	Pumping Station* / Filtration / Standpipe	EA	0	\$350,000.00	\$0
10	Flushing Hydrant (End of Line)	EA	1	\$6,000.00	\$6,000
11	Intake	EA	0	\$45,000.00	\$0
12	De-chlorination Station	EA	0	\$75,000.00	\$0
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0
15	Lake Grading	CY	0	\$3.75	\$0
16	Lake Stabilization	SF	0	\$1.33	\$0
	Construction Total:				\$887,500

Contingency Based upon Hard Costs (15%): \$133,100

Soft Costs Contingency (17%): \$150,900

Regional Park Acquisition \$0

TOTAL AMENITIES \$1,171,500

<sup>\*</sup> Assumes NID jurisdiction has expanded, therefore no additional Pumping Station is required near Regional Park.

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



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13

14

15

16

De-chlorination Station

Lake Grading

Lake Stabilization

NID Water Diversion Gate

Lake Aeration - Oak Tree Lane (Walkup Ranch)

Construction Total:

Village 1	er's Opinion of Costs 1 - Amenities - Includes Non-Potable Water, Fro I Ferrari Ranch Road 2	ontage Lands	caping & Re	egional Park Acc	quisition
Item #		Unit	Quantity	Unit Price	Amount
-					
<b>AMENI</b>	TIES - Includes Non-Potable Water, Front	age Landsc	aping & Re	egional Park A	cquisition
1	6" Non-Potable Water Line	LF	1370	\$27.00	\$37,000
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	1	\$25,000.00	\$25,000
6	Frontage Landscaping	SF	21750	\$4.50	\$97,900
7	Water Valves (Assume every 500')	EA	3	\$2,500.00	\$7,500
8	Booster Pump	EA	0	\$75,000.00	\$0
9	Pumping Station* / Filtration / Standpipe	EA	0	\$350,000.00	\$0
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0
11	Intake	EA	0	\$45,000.00	\$0
-					

EΑ

EΑ

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CY

SF

Contingency Based upon Hard Costs (15%): \$25,100

0

0

0

0

0

Soft Costs Contingency (17%):

\$28,500

Regional Park Acquisition

\$75,000.00

\$50,000.00

\$15,000.00

\$3.75

\$1.33

\$0

\$0

\$0

\$0

\$0

\$0 \$167,400

TOTAL AMENITIES \$221,000

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



Village 1	's Opinion of Costs - Amenities - Includes Non-Potable Water, Fro	ontage Lands	scaping & Re	egional Park Acc	quisition
	McBean Park Drive 1		I a I		
Item #	Description	Unit	Quantity	Unit Price	Amount
<u>AMENIT</u>	IES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	egional Park A	cquisition
1	6" Non-Potable Water Line	LF	0	\$27.00	\$0
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	300	\$45.00	\$13,500
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0
6	Frontage Landscaping	SF	0	\$4.50	\$0
7	Water Valves (Assume every 500')	EA	1	\$2,500.00	\$2,500
8	Booster Pump	EA	0	\$75,000.00	\$0
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0
11	Intake	EA	0	\$45,000.00	\$0
12	De-chlorination Station	EA	0	\$75,000.00	\$0
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0
15	Lake Grading	CY	0	\$3.75	\$0
16	Lake Stabilization	SF	0	\$1.33	\$0

Construction Total:

Contingency Based upon Hard Costs (15%): \$2,400

Soft Costs Contingency (17%):

\$2,700

\$16,000

Regional Park Acquisition

\$0

TOTAL AMENITIES \$21,100

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



ngineer's Opinion of Costs
illage 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition
hase 1 McBean Park Drive 2

Item #	Description	Unit	Quantity	Unit Price	Amount
<b>AMENI</b>	TIES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	egional Park A	cquisition
				_	-
1	6" Non-Potable Water Line	LF	0	\$27.00	\$0
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	1420	\$45.00	\$63,900
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0
6	Frontage Landscaping	SF	0	\$4.50	\$0
7	Water Valves (Assume every 500')	EA	3	\$2,500.00	\$7,500
8	Booster Pump	EA	0	\$75,000.00	\$0
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0
11	Intake	EA	0	\$45,000.00	\$0
12	De-chlorination Station	EA	0	\$75,000.00	\$0
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0
15	Lake Grading	CY	0	\$3.75	\$0
16	Lake Stabilization	SF	0	\$1.33	\$0
	Construction Total:				\$71,400

Contingency Based upon Hard Costs (15%): \$10,700

Soft Costs Contingency (17%):

\$12,100

**Regional Park Acquisition** \$0

TOTAL AMENITIES \$94,200

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



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16

De-chlorination Station

Lake Grading

Lake Stabilization

NID Water Diversion Gate

Lake Aeration - Oak Tree Lane (Walkup Ranch)

Construction Total:

-	r's Opinion of Costs - Amenities - Includes Non-Potable Water, Fro	ontage Lands	caping & Re	egional Park Acc	uisition
_	McBean Park Drive 3	mago Lando	oupg a mo	.g.oa a	
Item #	Description	Unit	Quantity	Unit Price	Amount
<b>AMENIT</b>	TIES - Includes Non-Potable Water, Front	age Landsc	aping & Re	gional Park A	cquisition
1	6" Non-Potable Water Line	LF	0	\$27.00	\$0
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	1960	\$45.00	\$88,200
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	1	\$25,000.00	\$25,000
6	Frontage Landscaping	SF	0	\$4.50	\$0
7	Water Valves (Assume every 500')	EA	4	\$2,500.00	\$10,000
8	Booster Pump	EA	0	\$75,000.00	\$0
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0
11	Intake	EA	0	\$45,000,00	\$0

EΑ

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CY

SF

Contingency Based upon Hard Costs (15%): \$18,500

0

0

0

0

0

Soft Costs Contingency (17%):

\$20,900

\$0

\$0

\$0

\$0

\$0

\$0 \$123,200

Regional Park Acquisition

**TOTAL AMENITIES** 

\$75,000.00

\$50,000.00

\$15,000.00

\$3.75

\$1.33

\$162,600

\*\* Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



Engineer's Opinion of Costs
Village 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition
Phase 1 State Route 193 1

Item #	Description	Unit	Quantity	Unit Price	Amount
<b>AMENI7</b>	TIES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	gional Park A	cquisition
	·		•		•
1	6" Non-Potable Water Line	LF	850	\$27.00	\$23,000
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0
6	Frontage Landscaping	SF	0	\$4.50	\$0
7	Water Valves (Assume every 500')	EA	2	\$2,500.00	\$5,000
8	Booster Pump	EA	0	\$75,000.00	\$0
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0
11	Intake	EA	0	\$45,000.00	\$0
12	De-chlorination Station	EA	0	\$75,000.00	\$0
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0
15	Lake Grading	CY	0	\$3.75	\$0
16	Lake Stabilization	SF	0	\$1.33	\$0
	Construction Total:				\$28,000

Contingency Based upon Hard Costs (15%): \$4,200

Soft Costs Contingency (17%):

\$4,800

Regional Park Acquisition

\$0

TOTAL AMENITIES \$37,000

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



Engineer's Opinion of Costs
Village 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition
Phase 1 State Route 193 2

Item #	Description	Unit	Quantity	Unit Price	Amount
<b>AMENI</b>	TIES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	egional Park A	cquisition
1	6" Non-Potable Water Line	LF	1340	\$27.00	\$36,200
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0
6	Frontage Landscaping	SF	0	\$4.50	\$0
7	Water Valves (Assume every 500')	EA	3	\$2,500.00	\$7,500
8	Booster Pump	EA	0	\$75,000.00	\$0
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0
11	Intake	EA	0	\$45,000.00	\$0
12	De-chlorination Station	EA	0	\$75,000.00	\$0
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0
15	Lake Grading	CY	0	\$3.75	\$0
16	Lake Stabilization	SF	0	\$1.33	\$0
	Construction Total:				\$43,700

Contingency Based upon Hard Costs (15%): \$6,600

Soft Costs Contingency (17%):

\$7,400

Regional Park Acquisition

\$0

TOTAL AMENITIES \$57,700

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



Engineer's Opinion of Costs
Village 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition
Phase 1 State Route 193 3

Item #	Description	Unit	Quantity	Unit Price	Amount
<b>AMENI</b>	TIES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	gional Park A	cquisition
	·		•		_
1	6" Non-Potable Water Line	LF	2660	\$27.00	\$71,700
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0
6	Frontage Landscaping	SF	0	\$4.50	\$0
7	Water Valves (Assume every 500')	EA	5	\$2,500.00	\$12,500
8	Booster Pump	EA	0	\$75,000.00	\$0
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0
10	Flushing Hydrant (End of Line)	EA	1	\$6,000.00	\$6,000
11	Intake	EA	0	\$45,000.00	\$0
12	De-chlorination Station	EA	0	\$75,000.00	\$0
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0
15	Lake Grading	CY	0	\$3.75	\$0
16	Lake Stabilization	SF	0	\$1.33	\$0
	Construction Total:				\$90,200

Contingency Based upon Hard Costs (15%): \$13,500

Soft Costs Contingency (17%):

**Regional Park Acquisition** \$0

TOTAL AMENITIES \$119,000

\$15,300

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



Engineer's O	pinion of Costs				
Village 1 - Am	nenities - Includes Non-Potable Wate	r, Frontage Lands	caping & R	egional Park Acc	uisition
Phase 1 Oak	Tree Lane 6				
Item #	Description	Unit	Quantity	Unit Price	Amou

Item #	Description	Unit	Quantity	Unit Price	Amount
<b>AMENI</b>	TIES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	egional Park A	cquisition
1	6" Non-Potable Water Line	LF	0	\$27.00	\$0
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0
3	10" Non-Potable Water Line	LF	2440	\$44.00	\$107,400
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0
6	Frontage Landscaping	SF	14000	\$4.50	\$63,000
7	Water Valves (Assume every 500')	EA	5	\$2,500.00	\$12,500
8	Booster Pump	EA	1	\$75,000.00	\$75,000
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0
11	Intake	EA	0	\$45,000.00	\$0
12	De-chlorination Station	EA	0	\$75,000.00	\$0
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0
15	Lake Grading	CY	0	\$3.75	\$0
16	Lake Stabilization	SF	0	\$1.33	\$0
	Construction Total:				\$257,900

Contingency Based upon Hard Costs (15%): \$38,600

Soft Costs Contingency (17%): \$44,000

**Regional Park Acquisition** \$0

TOTAL AMENITIES \$340,500

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



Engineer's Opinion of Costs
Village 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition
Phase 1 Oak Tree Lane 7

Item #	Description	Unit	Quantity	Unit Price	Amount
<b>AMENI</b>	TIES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	egional Park A	cquisition
					-
1	6" Non-Potable Water Line	LF	0	\$27.00	\$0
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	1270	\$45.00	\$57,200
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	1	\$25,000.00	\$25,000
6	Frontage Landscaping	SF	0	\$4.50	\$0
7	Water Valves (Assume every 500')	EA	3	\$2,500.00	\$7,500
8	Booster Pump	EA	0	\$75,000.00	\$0
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0
11	Intake	EA	0	\$45,000.00	\$0
12	De-chlorination Station	EA	0	\$75,000.00	\$0
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0
15	Lake Grading	CY	0	\$3.75	\$0
16	Lake Stabilization	SF	0	\$1.33	\$0
	Construction Total:				\$89,700

Contingency Based upon Hard Costs (15%): \$13,500

Soft Costs Contingency (17%):

\$15,200

\$0

Regional Park Acquisition

TOTAL AMENITIES \$118,400

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



Engineer's Opinion of Costs
Village 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition
Phase 2 Summary

Item #	Description	Unit	Quantity	Unit Price	Amount
<b>AMENI</b>	TIES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	egional Park A	cquisition
				_	
1	6" Non-Potable Water Line	LF	870	\$27.00	\$23,500
2	8" Non-Potable Water Line	LF	2270	\$30.00	\$68,100
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0
6	Frontage Landscaping	SF	35100	\$4.50	\$158,000
7	Water Valves (Assume every 500')	EA	4	\$2,500.00	\$10,000
8	Booster Pump	EA	0	\$75,000.00	\$0
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0
11	Intake	EA	0	\$45,000.00	\$0
12	De-chlorination Station	EA	0	\$75,000.00	\$0
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0
15	Lake Grading	CY	0	\$3.75	\$0
16	Lake Stabilization	SF	0	\$1.33	\$0
	Construction Total:				\$259,600

Contingency Based upon Hard Costs (15%): \$38,900

Soft Costs Contingency (17%): \$44,100

**Regional Park Acquisition** \$0

TOTAL AMENITIES \$342,600

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.

\$0

\$0

\$0

\$0

\$0

\$0

\$158,000



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16

Intake

Lake Grading

Lake Stabilization

Flushing Hydrant (End of Line)

Lake Aeration - Oak Tree Lane (Walkup Ranch)

Construction Total:

De-chlorination Station

NID Water Diversion Gate

<b>Engine</b>	er's Opinion of Costs				
Village	1 - Amenities - Includes Non-Potable Water, Front Programme 1 - Amenities - Includes Non-Potable Water, Front Programme 1 - Amenities - Includes Non-Potable Water, Front Programme 1 - Amenities - Includes Non-Potable Water, Front Programme 1 - Amenities - Includes Non-Potable Water, Front Programme 1 - Amenities - Includes Non-Potable Water, Front Programme 1 - Amenities - Includes Non-Potable Water, Front Programme 1 - Amenities - Includes Non-Potable Water, Front Programme 1 - Amenities - Includes Non-Potable Water, Front Programme 1 - Amenities - Includes Non-Potable Water, Front Programme 1 - Amenities - Includes Non-Potable Water, Front Programme 1 - Amenities - Includes Non-Potable Water, Front Programme 1 - Amenitary - Includes Non-Potable Water, Front Programme 1 - Am	ontage Lands	caping & R	egional Park Acc	quisition
Phase :	2 Ferrari Ranch Road 3				
Item #	Description	Unit	Quantity	Unit Price	Amount
AMEN	ITIES - Includes Non-Potable Water, Front	age Landsca	aping & R	egional Park A	cquisition
	,				•
1	6" Non-Potable Water Line	LF	0	\$27.00	\$0
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0
6	Frontage Landscaping	SF	35100	\$4.50	\$158,000
7	Water Valves (Assume every 500')	EA	0	\$2,500.00	\$0
8	Booster Pump	EA	0	\$75,000.00	\$0
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0

EΑ

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CY

SF

Contingency Based upon Hard Costs (15%): \$23,700

0

0

0

0

0

0

Soft Costs Contingency (17%): \$26,900

Regional Park Acquisition \$0

\$6,000.00

\$45,000.00

\$75,000.00

\$50,000.00 \$15,000.00

\$3.75

\$1.33

TOTAL AMENITIES \$208,600

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



14

15

16

NID Water Diversion Gate

Lake Grading

Lake Stabilization

Engineer	's Opinion of Costs				
_	- Amenities - Includes Non-Potable Water, Fro	ntage Lands	caping & Re	egional Park Acc	quisition
Phase 2	Regional Park 1				•
Item #	Description	Unit	Quantity	Unit Price	Amount
	<u>.                                      </u>				
<b>AMENIT</b>	IES - Includes Non-Potable Water, Front	age Landsc	aping & Re	egional Park A	cquisition
					•
1	6" Non-Potable Water Line	LF	870	\$27.00	\$23,500
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0
6	Frontage Landscaping	SF	0	\$4.50	\$0
7	Water Valves (Assume every 500')	EA	0	\$2,500.00	\$0
8	Booster Pump	EA	0	\$75,000.00	\$0
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0
11	Intake	EA	0	\$45,000.00	\$0
12	De-chlorination Station	EA	0	\$75,000.00	\$0
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0

Contingency Based upon Hard Costs (15%): \$3,500

0

0

0

Soft Costs Contingency (17%):

\$4,000

\$23,500

\$0

\$0

Regional Park Acquisition

\$0

TOTAL AMENITIES \$31,000

\$15,000.00

\$3.75

\$1.33

EΑ

CY

SF

Construction Total:

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



Description Huit Occurity Huit Bries Amou
Phase 2 Oak Tree Lane 4
Village 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition
Engineer's Opinion of Costs

Item #	Description	Unit	Quantity	Unit Price	Amount
<b>AMENI</b>	TIES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	egional Park A	cquisition
1	6" Non-Potable Water Line	LF	0	\$27.00	\$0
2	8" Non-Potable Water Line	LF	1720	\$30.00	\$51,600
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0
6	Frontage Landscaping	SF	0	\$4.50	\$0
7	Water Valves (Assume every 500')	EA	3	\$2,500.00	\$7,500
8	Booster Pump	EA	0	\$75,000.00	\$0
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0
11	Intake	EA	0	\$45,000.00	\$0
12	De-chlorination Station	EA	0	\$75,000.00	\$0
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0
15	Lake Grading	CY	0	\$3.75	\$0
16	Lake Stabilization	SF	0	\$1.33	\$0
	Construction Total:				\$59,100

Contingency Based upon Hard Costs (15%): \$8,800

Soft Costs Contingency (17%):

\$10,000

Regional Park Acquisition

\$0

TOTAL AMENITIES \$77,900

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



Engineer's Opinion of Costs
Village 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition
Phase 2 Oak Tree Lane 5

Item #	Description	Unit	Quantity	Unit Price	Amount
<b>AMENI</b>	TIES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	egional Park A	cquisition
1	6" Non-Potable Water Line	LF	0	\$27.00	\$0
2	8" Non-Potable Water Line	LF	550	\$30.00	\$16,500
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0
6	Frontage Landscaping	SF	0	\$4.50	\$0
7	Water Valves (Assume every 500')	EA	1	\$2,500.00	\$2,500
8	Booster Pump	EA	0	\$75,000.00	\$0
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0
11	Intake	EA	0	\$45,000.00	\$0
12	De-chlorination Station	EA	0	\$75,000.00	\$0
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0
15	Lake Grading	CY	0	\$3.75	\$0
16	Lake Stabilization	SF	0	\$1.33	\$0
	Construction Total:				\$19,000

Contingency Based upon Hard Costs (15%): \$2,900

Soft Costs Contingency (17%):

\$3,200

Regional Park Acquisition

\$0

TOTAL AMENITIES \$25,100

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



Engineer's Opinion of Costs
Village 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition
Phase 3 Summary
Item # Description Unit Quantity Unit Price Amou

Item #	Description	Unit	Quantity	Unit Price	Amount
<b>AMENI</b>	TIES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	gional Park A	equisition
1	6" Non-Potable Water Line	LF	700	\$27.00	\$18,900
2	8" Non-Potable Water Line	LF	3675	\$30.00	\$110,300
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	1850	\$45.00	\$83,300
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0
6	Frontage Landscaping	SF	43300	\$4.50	\$194,900
7	Water Valves (Assume every 500')	EA	12	\$2,500.00	\$30,000
8	Booster Pump	EA	1	\$75,000.00	\$75,000
9	Pumping Station / Filtration / Standpipe	EA	1	\$350,000.00	\$350,000
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0
11	Intake	EA	1	\$45,000.00	\$45,000
12	De-chlorination Station	EA	1	\$75,000.00	\$75,000
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	1	\$50,000.00	\$50,000
14	NID Water Diversion Gate	EA	1	\$15,000.00	\$15,000
15	Lake Grading	CY	109715	\$3.75	\$411,400
16	Lake Stabilization	SF	301710	\$1.33	\$401,300
	Construction Total:				\$1,860,100

Contingency Based upon Hard Costs (15%): \$279,000

Soft Costs Contingency (17%): \$316,200

**Regional Park Acquisition** \$625,000

TOTAL AMENITIES \$3,080,300

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



ı	⊨ngine	er's Opinion of Costs				
	Village 1	1 - Amenities - Includes Non-Potable Water, Fro	ontage Lands	caping & Re	gional Park Acq	uisition
	Phase 3	Ferrari Ranch Road 4				
ı	Item #	Description	Unit	Quantity	Unit Price	Δтош

Item #	Description	Unit	Quantity	Unit Price	Amount
<b>AMENI</b>	TIES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	egional Park A	cquisition
				_	
1	6" Non-Potable Water Line	LF	0	\$27.00	\$0
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0
6	Frontage Landscaping	SF	17250	\$4.50	\$77,600
7	Water Valves (Assume every 500')	EA	0	\$2,500.00	\$0
8	Booster Pump	EA	0	\$75,000.00	\$0
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0
11	Intake	EA	0	\$45,000.00	\$0
12	De-chlorination Station	EA	0	\$75,000.00	\$0
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0
15	Lake Grading	CY	0	\$3.75	\$0
16	Lake Stabilization	SF	0	\$1.33	\$0
	Construction Total:				\$77,600

Contingency Based upon Hard Costs (15%): \$11,600

Soft Costs Contingency (17%):

**Regional Park Acquisition** \$0

TOTAL AMENITIES \$102,400

\$13,200

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



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14

15

16

Engineer's Opinion of Costs Village 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition Phase 3 Ferrari Ranch Road 5								
Item #	Description	Unit	Quantity	Unit Price	Amount			
<b>AMENITI</b>	ES - Includes Non-Potable Water, Front	age Landsc	aping & Re	gional Park A	cquisition			
					-			
1	6" Non-Potable Water Line	LF	700	\$27.00	\$18,900			
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0			
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0			
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0			
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0			
6	Frontage Landscaping	SF	9900	\$4.50	\$44,600			
7	Water Valves (Assume every 500')	EA	1	\$2,500.00	\$2,500			
8	Booster Pump	EA	0	\$75,000.00	\$0			
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0			
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0			
11	Intake	EA	0	\$45,000.00	\$0			
12	De-chlorination Station	EA	0	\$75,000.00	\$0			

Lake Aeration - Oak Tree Lane (Walkup Ranch)

Construction Total:

NID Water Diversion Gate

Lake Grading

Lake Stabilization

Contingency Based upon Hard Costs (15%): \$9,900

0

0

0

0

Soft Costs Contingency (17%):

\$50,000.00

\$15,000.00

\$3.75

\$1.33

\$11,200

\$66,000

Regional Park Acquisition

\$0

\$0

\$0

TOTAL AMENITIES \$87,100

EΑ

EΑ

CY

SF

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



Engineer's Opinion of Costs
Village 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition
Phase 3 Oak Tree Lane 3

Item #	Description	Unit	Quantity	Unit Price	Amount
<b>AMENI</b>	TIES - Includes Non-Potable Water, Fronta	age Landsc	aping & Ro	egional Park A	cquisition
					-
1	6" Non-Potable Water Line	LF	0	\$27.00	\$0
2	8" Non-Potable Water Line	LF	1470	\$30.00	\$44,100
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0
6	Frontage Landscaping	SF	0	\$4.50	\$0
7	Water Valves (Assume every 500')	EA	3	\$2,500.00	\$7,500
8	Booster Pump	EA	1	\$75,000.00	\$75,000
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0
11	Intake	EA	0	\$45,000.00	\$0
12	De-chlorination Station	EA	0	\$75,000.00	\$0
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0
15	Lake Grading	CY	0	\$3.75	\$0
16	Lake Stabilization	SF	0	\$1.33	\$0
	Construction Total:				\$126,600

Contingency Based upon Hard Costs (15%): \$19,000

Soft Costs Contingency (17%):

\$21,500

\$0

Regional Park Acquisition

TOTAL AMENITIES \$167,100

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



Engineer's Opinion of Costs
Village 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition
Phase 3 Oak Tree Lane 8

Item #	Description	Unit	Quantity	Unit Price	Amount
<b>AMENI</b>	TIES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	egional Park A	cquisition
	·		•		
1	6" Non-Potable Water Line	LF	0	\$27.00	\$0
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	1850	\$45.00	\$83,300
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0
6	Frontage Landscaping	SF	10400	\$4.50	\$46,800
7	Water Valves (Assume every 500')	EA	4	\$2,500.00	\$10,000
8	Booster Pump	EA	0	\$75,000.00	\$0
9	Pumping Station* / Filtration / Standpipe	EA	1	\$350,000.00	\$350,000
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0
11	Intake	EA	1	\$45,000.00	\$45,000
12	De-chlorination Station	EA	1	\$75,000.00	\$75,000
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	1	\$50,000.00	\$50,000
14	NID Water Diversion Gate	EA	1	\$15,000.00	\$15,000
15	Lake Grading	CY	109715	\$3.75	\$411,400
16	Lake Stabilization	SF	301710	\$1.33	\$401,300
	Construction Total:				\$1,487,800

Contingency Based upon Hard Costs (15%): \$223,200

Soft Costs Contingency (17%): \$252,900

**Regional Park Acquisition** \$0

TOTAL AMENITIES \$1,963,900

<sup>\*</sup> Assumes NID jurisdiction has expanded, therefore no additional Pumping Station is required near Regional Park.

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



Engine	er's Opinion of Costs				
Village 1	1 - Amenities - Includes Non-Potable Water, Fro	ontage Lands	caping & R	egional Park Acc	uisition
Phase 3	3 Oak Tree Lane 9				
Item #	Description	Unit	Quantity	Unit Price	Amou

Item #	Description	Unit	Quantity	Unit Price	Amount
<b>AMENI</b>	TIES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	egional Park A	cquisition
1	6" Non-Potable Water Line	LF	0	\$27.00	\$0
2	8" Non-Potable Water Line	LF	1240	\$30.00	\$37,200
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0
6	Frontage Landscaping	SF	13200	\$4.50	\$59,400
7	Water Valves (Assume every 500')	EA	2	\$2,500.00	\$5,000
8	Booster Pump	EA	0	\$75,000.00	\$0
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0
11	Intake	EA	0	\$45,000.00	\$0
12	De-chlorination Station	EA	0	\$75,000.00	\$0
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0
15	Lake Grading	CY	0	\$3.75	\$0
16	Lake Stabilization	SF	0	\$1.33	\$0
	Construction Total:				\$101,600

Contingency Based upon Hard Costs (15%): \$15,200

Soft Costs Contingency (17%):

\$17,300

\$0

Regional Park Acquisition

TOTAL AMENITIES \$134,100

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



Engineer's Opinion of Costs Village 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition						
	Oak Tree Lane 10					
Item #	Description	Unit	Quantity	Unit Price	Amount	
<b>AMENITI</b>	IES - Includes Non-Potable Water, Fronta	age Landso	caping & Re	gional Park A	cquisition	
1	6" Non-Potable Water Line	LF	0	\$27.00	\$0	
2	8" Non-Potable Water Line	LF	965	\$30.00	\$29,000	
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0	
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0	
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0	
6	Frontage Landscaping	SF	9800	\$4.50	\$44,100	
7	Water Valves (Assume every 500')	EA	2	\$2,500.00	\$5,000	
8	Booster Pump	EA	0	\$75,000.00	\$0	
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0	
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0	
11	Intake	EA	0	\$45,000.00	\$0	
12	De-chlorination Station	EA	0	\$75,000.00	\$0	
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0	
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0	
15	Lake Grading	CY	0	\$3.75	\$0	
16	Lake Stabilization	SF	0	\$1.33	\$0	

Construction Total:

Contingency Based upon Hard Costs (15%): \$11,700

Soft Costs Contingency (17%): \$

\$13,300

\$78,100

Regional Park Acquisition

\$0

TOTAL AMENITIES \$103,100

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



Engineer's Opinion of Costs
Village 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition
Phase 4 Summary

Item #	Description	Unit	Quantity	Unit Price	Amount
<b>AMENI</b>	TIES - Includes Non-Potable Water, Fronta	age Landsca	aping & Re	egional Park A	cquisition
1	6" Non-Potable Water Line	LF	5125	\$27.00	\$138,400
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0
6	Frontage Landscaping	SF	0	\$4.50	\$0
7	Water Valves (Assume every 500')	EA	10	\$2,500.00	\$25,000
8	Booster Pump	EA	0	\$75,000.00	\$0
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0
11	Intake	EA	0	\$45,000.00	\$0
12	De-chlorination Station	EA	0	\$75,000.00	\$0
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0
15	Lake Grading	CY	0	\$3.75	\$0
16	Lake Stabilization	SF	0	\$1.33	\$0
	Construction Total:	_			\$163,400

Contingency Based upon Hard Costs (15%): \$24,500

Soft Costs Contingency (17%):

\$27,800

Regional Park Acquisition

\$175,000

TOTAL AMENITIES \$390,700

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



Er	igineer's Opinion of Costs
Vi	llage 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition
Pł	pase 4 Oak Tree Lane 2

Item #	Description	Unit	Quantity	Unit Price	Amount
<b>AMENI7</b>	TIES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	gional Park A	cquisition
	·		•		•
1	6" Non-Potable Water Line	LF	1620	\$27.00	\$43,700
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0
6	Frontage Landscaping	SF	0	\$4.50	\$0
7	Water Valves (Assume every 500')	EA	3	\$2,500.00	\$7,500
8	Booster Pump	EA	0	\$75,000.00	\$0
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0
11	Intake	EA	0	\$45,000.00	\$0
12	De-chlorination Station	EA	0	\$75,000.00	\$0
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0
15	Lake Grading	CY	0	\$3.75	\$0
16	Lake Stabilization	SF	0	\$1.33	\$0
	Construction Total:	_			\$51,200

Contingency Based upon Hard Costs (15%): \$7,700

Soft Costs Contingency (17%):

\$8,700

Regional Park Acquisition

\$0

TOTAL AMENITIES \$67,600

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



Engineer's	s Opinion of Costs				
Village 1 -	Amenities - Includes Non-Potable Water, Fro	ontage Lands	caping & Re	egional Park Acc	uisition
Phase 4 N	orth South Collector 1				
Item #	Description	Unit	Quantity	Unit Price	Amou

Item #	Description	Unit	Quantity	Unit Price	Amount	
<b>AMENI</b>	AMENITIES - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition					
					-	
1	6" Non-Potable Water Line	LF	985	\$27.00	\$26,600	
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0	
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0	
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0	
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0	
6	Frontage Landscaping	SF	0	\$4.50	\$0	
7	Water Valves (Assume every 500')	EA	2	\$2,500.00	\$5,000	
8	Booster Pump	EA	0	\$75,000.00	\$0	
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0	
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0	
11	Intake	EA	0	\$45,000.00	\$0	
12	De-chlorination Station	EA	0	\$75,000.00	\$0	
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0	
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0	
15	Lake Grading	CY	0	\$3.75	\$0	
16	Lake Stabilization	SF	0	\$1.33	\$0	
	Construction Total:				\$31,600	

Contingency Based upon Hard Costs (15%): \$4,700

Soft Costs Contingency (17%):

\$5,400

Regional Park Acquisition

\$0

TOTAL AMENITIES \$41,700

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



ı	Engineer's Opinion of Costs
	Village 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition
ı	Phase 4 Collector Loop 1

Item #	Description	Unit	Quantity	Unit Price	Amount
<b>AMENIT</b>	TES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	gional Park A	cquisition
	·		•		•
1	6" Non-Potable Water Line	LF	2520	\$27.00	\$68,100
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0
6	Frontage Landscaping	SF	0	\$4.50	\$0
7	Water Valves (Assume every 500')	EA	5	\$2,500.00	\$12,500
8	Booster Pump	EA	0	\$75,000.00	\$0
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0
11	Intake	EA	0	\$45,000.00	\$0
12	De-chlorination Station	EA	0	\$75,000.00	\$0
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0
15	Lake Grading	CY	0	\$3.75	\$0
16	Lake Stabilization	SF	0	\$1.33	\$0
	Construction Total:				\$80,600

Contingency Based upon Hard Costs (15%): \$12,100

Soft Costs Contingency (17%):

Regional Park Acquisition \$0

\$13,700

TOTAL AMENITIES \$106,400

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



ı	Engineer's Opinion of Costs
	Village 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition
	Phase 5 Summary

Item #	Description	Unit	Quantity	Unit Price	Amount
<b>AMENI</b>	TIES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	gional Park A	cquisition
1	6" Non-Potable Water Line	LF	2920	\$27.00	\$78,800
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0
6	Frontage Landscaping	SF	72600	\$4.50	\$326,700
7	Water Valves (Assume every 500')	EA	6	\$2,500.00	\$15,000
8	Booster Pump	EA	0	\$75,000.00	\$0
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0
10	Flushing Hydrant (End of Line)	EA	1	\$6,000.00	\$6,000
11	Intake	EA	0	\$45,000.00	\$0
12	De-chlorination Station	EA	0	\$75,000.00	\$0
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0
15	Lake Grading	CY	0	\$3.75	\$0
16	Lake Stabilization	SF	0	\$1.33	\$0
	Construction Total:				\$426,500

Contingency Based upon Hard Costs (15%): \$64,000

Soft Costs Contingency (17%):

\$72,500

\$0

Regional Park Acquisition

TOTAL AMENITIES \$563,000

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



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Intake

Lake Grading

Lake Stabilization

De-chlorination Station

NID Water Diversion Gate

Lake Aeration - Oak Tree Lane (Walkup Ranch)

Construction Total:

	Engineer's Opinion of Costs Village 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition								
	Phase 5 Oak Tree Lane 1								
Item #	Description	Unit	Quantity	Unit Price	Amount				
	•		<u> </u>						
<b>AMENIT</b>	IES - Includes Non-Potable Water, Front	age Landsc	aping & Re	gional Park A	cquisition				
					•				
1	6" Non-Potable Water Line	LF	670	\$27.00	\$18,100				
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0				
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0				
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0				
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0				
6	Frontage Landscaping	SF	60900	\$4.50	\$274,000				
7	Water Valves (Assume every 500')	EA	1	\$2,500.00	\$2,500				
8	Booster Pump	EA	0	\$75,000.00	\$0				
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0				
10	Flushing Hydrant (End of Line)	EA	1	\$6,000.00	\$6.000				

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CY

SF

Contingency Based upon Hard Costs (15%): \$45,000

0

0

0

0

0

0

Soft Costs Contingency (17%):

\$51,000

\$300,600

\$0

\$0

\$0

\$0

\$0

Regional Park Acquisition

\$45,000.00

\$75,000.00

\$50,000.00 \$15,000.00

\$3.75

\$1.33

\$0

TOTAL AMENITIES \$396,600

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



ı	Engineer's Opinion of Costs
	Village 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition
ı	Phase 5 Sierra College Blvd. 1

Item #	Description	Unit	Quantity	Unit Price	Amount
<b>AMENIT</b>	TES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	gional Park A	cquisition
	·		•		•
1	6" Non-Potable Water Line	LF	0	\$27.00	\$0
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0
6	Frontage Landscaping	SF	5700	\$4.50	\$25,700
7	Water Valves (Assume every 500')	EA	0	\$2,500.00	\$0
8	Booster Pump	EA	0	\$75,000.00	\$0
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0
11	Intake	EA	0	\$45,000.00	\$0
12	De-chlorination Station	EA	0	\$75,000.00	\$0
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0
15	Lake Grading	CY	0	\$3.75	\$0
16	Lake Stabilization	SF	0	\$1.33	\$0
	Construction Total:	_			\$25,700

Contingency Based upon Hard Costs (15%): \$3,900

Soft Costs Contingency (17%):

\$4,400

Regional Park Acquisition

\$0

TOTAL AMENITIES \$34,000

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



Engineer's Opinion of Costs
Village 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition
Phase 5 Sierra College Blvd. 2

Item #	Description	Unit	Quantity	Unit Price	Amount
<b>AMENI</b>	TIES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	egional Park A	cquisition
	·		•		•
1	6" Non-Potable Water Line	LF	0	\$27.00	\$0
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0
6	Frontage Landscaping	SF	6000	\$4.50	\$27,000
7	Water Valves (Assume every 500')	EA	0	\$2,500.00	\$0
8	Booster Pump	EA	0	\$75,000.00	\$0
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0
11	Intake	EA	0	\$45,000.00	\$0
12	De-chlorination Station	EA	0	\$75,000.00	\$0
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0
15	Lake Grading	CY	0	\$3.75	\$0
16	Lake Stabilization	SF	0	\$1.33	\$0
	Construction Total:	_			\$27,000

Contingency Based upon Hard Costs (15%): \$4,100

Soft Costs Contingency (17%):

\$4,600

Regional Park Acquisition

\$0

TOTAL AMENITIES \$35,700

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



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Lake Grading

Lake Stabilization

Engineer'	s Opinion of Costs								
	Amenities - Includes Non-Potable Water, Fro	ontage Lands	caning & Re	egional Park Acc	uisition				
_	Phase 5 North South Collector 2								
Item # Description Unit Quantity Unit Price A									
	·								
AMENITI	ES - Includes Non-Potable Water, Front	age Landsc	aping & Re	gional Park A	cquisition				
	,		, ,		•				
1	6" Non-Potable Water Line	LF	1350	\$27.00	\$36,500				
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0				
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0				
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0				
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0				
6	Frontage Landscaping	SF	0	\$4.50	\$0				
7	Water Valves (Assume every 500')	EA	3	\$2,500.00	\$7,500				
8	Booster Pump	EA	0	\$75,000.00	\$0				
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0				
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0				
11	Intake	EA	0	\$45,000.00	\$0				
12	De-chlorination Station	EA	0	\$75,000.00	\$0				
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0				
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0				

Construction Total:

Contingency Based upon Hard Costs (15%): \$6,600

0

0

Soft Costs Contingency (17%):

\$7,500

\$44,000

\$0

\$0

Regional Park Acquisition

\$0

TOTAL AMENITIES \$58,100

\$3.75

\$1.33

CY

SF

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



Engineer's Opinion of Costs
Village 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition
Phase 5 Collector Loop 2

Item #	Description	Unit	Quantity	Unit Price	Amount
<b>AMENI</b>	TIES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	egional Park A	cquisition
1	6" Non-Potable Water Line	LF	900	\$27.00	\$24,200
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0
6	Frontage Landscaping	SF	0	\$4.50	\$0
7	Water Valves (Assume every 500')	EA	2	\$2,500.00	\$5,000
8	Booster Pump	EA	0	\$75,000.00	\$0
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0
11	Intake	EA	0	\$45,000.00	\$0
12	De-chlorination Station	EA	0	\$75,000.00	\$0
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0
15	Lake Grading	CY	0	\$3.75	\$0
16	Lake Stabilization	SF	0	\$1.33	\$0
	Construction Total:				\$29,200

Contingency Based upon Hard Costs (15%): \$4,400

Soft Costs Contingency (17%):

\$5,000

Regional Park Acquisition

\$0

TOTAL AMENITIES \$38,600

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



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Intake

Lake Grading

Lake Stabilization

Pumping Station / Filtration / Standpipe

Lake Aeration - Oak Tree Lane (Walkup Ranch)

Construction Total:

Flushing Hydrant (End of Line)

De-chlorination Station

NID Water Diversion Gate

Engine	Engineer's Opinion of Costs						
Village 1	1 - Amenities - Includes Non-Potable Water, Fro	ontage Lands	caping & Re	egional Park Acc	uisition		
Phase 6	hase 6 Summary						
Item #	Description	Unit	Quantity	Unit Price	Amount		
<b>AMENI</b>	ITIES - Includes Non-Potable Water, Fronta	age Landsca	aping & Re	egional Park A	cquisition		
1	6" Non-Potable Water Line	LF	3870	\$27.00	\$104,500		
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0		
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0		
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0		
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0		
6	Frontage Landscaping	SF	0	\$4.50	\$0		
7	Water Valves (Assume every 500')	EA	8	\$2,500.00	\$20,000		
8	Booster Pump	EA	0	\$75,000.00	\$0		

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CY

SF

Contingency Based upon Hard Costs (15%): \$18,700

0

0

0

0

0

0

0

Soft Costs Contingency (17%):

\$21,200

\$124,500

Regional Park Acquisition

\$350,000.00

\$6,000.00

\$45,000.00

\$75,000.00

\$50,000.00

\$15,000.00

\$3.75

\$1.33

\$0

\$0

\$0

\$0

\$0

\$0

\$0

\$0

\$0

TOTAL AMENITIES \$164,400

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



Engineer's Opinion of Costs
Village 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition
Phase 6 Collector Loop 3

Item #	Description	Unit	Quantity	Unit Price	Amount
<b>AMENI7</b>	TIES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	egional Park A	cquisition
	·		•		•
1	6" Non-Potable Water Line	LF	3870	\$27.00	\$104,500
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0
6	Frontage Landscaping	SF	0	\$4.50	\$0
7	Water Valves (Assume every 500')	EA	8	\$2,500.00	\$20,000
8	Booster Pump	EA	0	\$75,000.00	\$0
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0
11	Intake	EA	0	\$45,000.00	\$0
12	De-chlorination Station	EA	0	\$75,000.00	\$0
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0
15	Lake Grading	CY	0	\$3.75	\$0
16	Lake Stabilization	SF	0	\$1.33	\$0
	Construction Total:				\$124,500

Contingency Based upon Hard Costs (15%): \$18,700

Soft Costs Contingency (17%):

\$21,200

\$0

Regional Park Acquisition

TOTAL AMENITIES \$164,400

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



Itom #	<u> </u>	Unit	Quantity	Unit Drice	Amou
Phase 7	7 Summary				
Village 1	1 - Amenities - Includes Non-Potable Water, Fro	ontage Lands	caping & R	egional Park Acc	quisition
Engine	er's Opinion of Costs				

Item #	Description	Unit	Quantity	Unit Price	Amount
<b>AMENI</b>	TIES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	egional Park A	cquisition
1	6" Non-Potable Water Line	LF	2420	\$27.00	\$65,300
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	1	\$25,000.00	\$25,000
6	Frontage Landscaping	SF	7450	\$4.50	\$33,500
7	Water Valves (Assume every 500')	EA	4	\$2,500.00	\$10,000
8	Booster Pump	EA	0	\$75,000.00	\$0
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0
10	Flushing Hydrant (End of Line)	EA	1	\$6,000.00	\$6,000
11	Intake	EA	0	\$45,000.00	\$0
12	De-chlorination Station	EA	0	\$75,000.00	\$0
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0
15	Lake Grading	CY	0	\$3.75	\$0
16	Lake Stabilization	SF	0	\$1.33	\$0
	Construction Total:				\$139,800

Contingency Based upon Hard Costs (15%): \$21,000

Soft Costs Contingency (17%):

\$23,800

\$0

Regional Park Acquisition

**TOTAL AMENITIES** 

\$184,600

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



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_	ngineer's Opinion of Costs								
_	1 - Amenities - Includes Non-Potable Water, Front Potable Water, Front P	ontage Lands	caping & R	egional Park Acc	quisition				
Phase 7	7 Oak Tree Lane 11								
Item #	Description	Unit	Quantity	Unit Price	Amount				
<b>AMENI</b>	ITIES - Includes Non-Potable Water, Front	age Landsca	aping & Re	egional Park A	cquisition				
					-				
1	6" Non-Potable Water Line	LF	1520	\$27.00	\$41,000				
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0				
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0				
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0				
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0				
6	Frontage Landscaping	SF	7450	\$4.50	\$33,500				
7	Water Valves (Assume every 500')	EA	3	\$2,500.00	\$7,500				
8	Booster Pump	EA	0	\$75,000.00	\$0				
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0				
10	Flushing Hydrant (End of Line)	EA	1	\$6,000.00	\$6,000				
11	Intake	EA	0	\$45,000.00	\$0				
12	De-chlorination Station	EA	0	\$75,000.00	\$0				

Lake Aeration - Oak Tree Lane (Walkup Ranch)

Construction Total:

NID Water Diversion Gate

Lake Grading

Lake Stabilization

Contingency Based upon Hard Costs (15%): \$13,200

0

0

0

0

Soft Costs Contingency (17%):

\$15,000

\$88,000

Regional Park Acquisition

\$50,000.00

\$15,000.00

\$3.75

\$1.33

\$0

\$0

\$0

TOTAL AMENITIES \$116,200

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EΑ

CY

SF

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



AMENITIES - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acques   1 6" Non-Potable Water Line   LF   200 \$27.00   2 8" Non-Potable Water Line   LF   0 \$30.00   3 10" Non-Potable Water Line   LF   0 \$44.00   4 12" Non-Potable Water Line   LF   0 \$45.00   5 Temporary Connection to Domestic w/ Backflow Prevention   EA   1 \$25,000.00	
AMENITIES - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acques  1 6" Non-Potable Water Line	Amount
1 6" Non-Potable Water Line LF 200 \$27.00 2 8" Non-Potable Water Line LF 0 \$30.00 3 10" Non-Potable Water Line LF 0 \$44.00 4 12" Non-Potable Water Line LF 0 \$45.00 5 Temporary Connection to Domestic w/ Backflow Prevention EA 1 \$25,000.00	
1       6" Non-Potable Water Line       LF       200       \$27.00         2       8" Non-Potable Water Line       LF       0       \$30.00         3       10" Non-Potable Water Line       LF       0       \$44.00         4       12" Non-Potable Water Line       LF       0       \$45.00         5       Temporary Connection to Domestic w/ Backflow Prevention       EA       1       \$25,000.00	isition
2       8" Non-Potable Water Line       LF       0       \$30.00         3       10" Non-Potable Water Line       LF       0       \$44.00         4       12" Non-Potable Water Line       LF       0       \$45.00         5       Temporary Connection to Domestic W/ Backflow Prevention       EA       1       \$25,000.00	
3   10" Non-Potable Water Line	\$5,400
4 12" Non-Potable Water Line LF 0 \$45.00  Temporary Connection to Domestic w/ Backflow Prevention EA 1 \$25,000.00	\$0
Temporary Connection to Domestic w/ Backflow Prevention EA 1 \$25,000.00	\$0
Prevention EA 1 \$25,000.00	\$0
	\$25,000
6 Frontage Landscaping SF 0 \$4.50	\$0
7 Water Valves (Assume every 500') EA 0 \$2,500.00	\$0
8 Booster Pump EA 0 \$75,000.00	\$0
9 Pumping Station / Filtration / Standpipe EA 0 \$350,000.00	\$0
10 Flushing Hydrant (End of Line) EA 0 \$6,000.00	\$0
11 Intake EA 0 \$45,000.00	\$0
12 De-chlorination Station EA 0 \$75,000.00	\$0
13 Lake Aeration - Oak Tree Lane (Walkup Ranch) EA 0 \$50,000.00	\$0
14 NID Water Diversion Gate EA 0 \$15,000.00	\$0
15 Lake Grading CY 0 \$3.75	\$0
16 Lake Stabilization SF 0 \$1.33	\$0

Construction Total:

Contingency Based upon Hard Costs (15%): \$4,600

Soft Costs Contingency (17%):

\$5,100

\$30,400

Regional Park Acquisition

\$0

TOTAL AMENITIES \$40,100

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



Engineer's Opinion of Costs				
Village 1 - Amenities - Includes Non-Potable Water, Fron	tage Lands	caping & Re	gional Park Acc	uisition
Phase 7 Virginiatown Road 2				
Item # Description	Unit	Quantity	Unit Price	Amour

Item #	em # Description		Quantity	Unit Price	Amount
AMENITIE	ES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	gional Park A	cquisition
1	6" Non-Potable Water Line	LF	600	\$27.00	\$16,200
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0
6	Frontage Landscaping	SF	0	\$4.50	\$0
7	Water Valves (Assume every 500')	EA	1	\$2,500.00	\$2,500
8	Booster Pump	EA	0	\$75,000.00	\$0
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0
11	Intake	EA	0	\$45,000.00	\$0
12	De-chlorination Station	EA	0	\$75,000.00	\$0
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0
15	Lake Grading	CY	0	\$3.75	\$0
16	Lake Stabilization	SF	0	\$1.33	\$0
	Construction Total:				\$18,700

Contingency Based upon Hard Costs (15%): \$2,800

Soft Costs Contingency (17%):

\$3,200

Regional Park Acquisition

\$0

TOTAL AMENITIES \$24,700

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.



Enginee	Engineer's Opinion of Costs									
Village 1	I - Amenities - Includes Non-Potable Water, Fr	ontage Land	scaping & R	egional Park Ac	quisition					
Phase 7	Virginiatown Road 3									
Item #	Description	Unit	Quantity	Unit Price	Amount					
<b>AMENI</b>	TIES - Includes Non-Potable Water, Front	age Landso	aping & Re	gional Park A	cquisition					
1	1 6" Non-Potable Water Line LF 100 \$27.00 \$									
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0					
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0					
4	4 12" Non-Potable Water Line LF 0 \$45.00		\$0							
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0					
6	Frontage Landscaping	SF	0	\$4.50	\$0					
7	Water Valves (Assume every 500')	EA	0	\$2,500.00	\$0					
8	Booster Pump	EA	0	\$75,000.00	\$0					
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0					
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0					
11	Intake	EA	0	\$45,000.00	\$0					
12	De-chlorination Station	EA	0	\$75,000.00	\$0					
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0					
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0					
15	Lake Grading	CY	0	\$3.75	\$0					
16	Lake Stabilization	SF	0	\$1.33	\$0					
	Construction Total:				\$2,700					

Contingency Based upon Hard Costs (15%): \$400 \$500

**Soft Costs Contingency (17%):** 

\$0

**Regional Park Acquisition** 

**TOTAL AMENITIES** 

\$3,600

<sup>\*\*</sup> Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate corporation yard, then remaining 4 acres will be purchased.

# APPENDIX 10 Lincoln Village 1 Specific Plan Infrastructure Finance Plan PFE Construction Items Table, PFE Maps and City Impact Fees





# Engineer's Opinion of Costs Village 1 PFE Eligible Construction Items Backbone Roadway

Backbone Roadway							
Item #	Improvement	Description	<b>Total Cost</b>				
Backb	one Roadway System						
V1R1	Ferrari Ranch Road South	Along Ferrari Ranch Road South from the existing bridge east of Lincoln Blvd. to McBean Park Drive, 2 lanes, median landscaping and 2 traffic signals at Ingram Parkway and Sun City Blvd.	\$3,603,100				
V1R2	Ferrari Ranch Road/McBean Park Drive Intersection Traffic Signal	Including full signal appurtenances and associated pavement widening and necessary intersection revisions.	\$642,500				
V1R3	Ferrari Ranch Road North	From the intersection of McBean Park Drive and Ferrari Ranch Road north to the end of the transition from a 4 lane road to 2 lane road, 2 inside lanes and transition.	\$245,800				
V1R4	Oak Tree Lane/Sierra College Boulevard Intersection Traffic Signal	Including full signal appurtenances and associated pavement widening.	\$1,826,100				
V1R5	Oak Tree Lane South	In addition to V1R6, west side of Oak Tree Lane South from the southern boundary of the condo parcel to the southeast corner of the church parcel, 1 lane, curb gutter & sidewalk, 1/2 median landscaping and frontage landscaping	\$526,200				
V1R6	Oak Tree Lane South	Along west side of Oak Tree Lane South in front of existing condo parcel, 1 lane, curb gutter & sidewalk, 1/2 median landscaping and frontage landscaping.	\$237,100				
V1R7	Oak Tree Lane/McBean Park Drive Intersection Traffic Signal	Including full signal appurtenances and associated pavement widening.	\$713,800				
V1R8	Oak Tree Lane North	From the intersection of Oak Tree Lane and McBean Park Drive north to the entrance of La Bella Rosa Subdivision, 2 inside lanes, 12'x5' Arch Pipe Culvert under PFE inside lanes at NID canal crossing.	\$716,700				
V1R9	Oak Tree Lane/School South Entrance Intersection Traffic Signal	Including full signal appurtenances and associated pavement widening.	\$455,500				
V1R10	Oak Tree Lane/School North Entrance Intersection Traffic Signal	Including full signal appurtenances and associated pavement widening.	\$455,300				
V1R11	Oak Tree Lane North	From entrance to La Bella Rosa Subdivision to the intersection of Ferrari Ranch Road and Oak Tree Lane, 2 inside lanes	\$172,300				
V1R12	Oak Tree Lane/Ferrari Ranch Road Intersection Traffic Signal	Including full signal appurtenances and associated pavement widening.	\$387,800				
V1R13	Oak Tree Lane North	2-lane box girder bridge across Auburn Ravine, with span of approximately 400 LF includes abutments and approaches.	\$7,260,100				
V1R14	Oak Tree Lane North	From north end of bridge to the intersection of Virginiatown Road, 2 inside lanes.	\$821,200				



Engineer's Opinion of Costs
Village 1 PFE Eligible Construction Items
Backbone Roadway

Backbo	one Roadway		
Item #	Improvement	Description	<b>Total Cost</b>
Backb	one Roadway Systen	1	
V1R15	Oak Tree Lane North	From the intersection of Oak Tree Lane and Virginiatown Road, south along the west side of Oak Tree Lane North to the southeast corner of the City property, 1 lane, curb, gutter and sidewalk.	\$250,700
V1R16	Virginiatown Road	From the intersection of Oak Tree Lane and Virginiatown Road, west along the south side of Virginiatown Road to the northwest corner of the City property, 1 lane.	\$286,300
V1R17	McBean Park Drive	South side of McBean Park Drive between west side of Ferrari Ranch Road and Oak Tree Lane, 1 lane, NEV lane, 1/2 median landscaping and frontage Landscaping (35' wide overall City may elect to spread or disburse over entire width of landscape corridor).	\$1,068,800
V1R18	State Route 193	South side of State Route 193 from Oak Tree Lane to east of the Collector/Turkey Creek intersection, 1outside lane, including transition and AB shoulder.	\$584,500
V1R19	McBean Park Drive	From the intersection of Ferrari Ranch Road and McBean Park Drive to intersection of Oak Tree Lane and McBean Park Drive, 2 lanes.	\$1,171,600
V1R20	State Route 193	North side of State Route 193 from Oak Tree Lane to east of the Collector/Turkey Creek intersection, 1outside lane, including transition and AB shoulder.	\$484,500
V1R21	State Route 193/North South Collector Intersection Traffic Signal	Including full signal appurtenances and associated pavement widening.	\$432,100
Total			\$22,342,000



## Engineer's Opinion of Costs Village 1 PFE Eligible Construction Items Backbone Water

Item #	Improvement	Description	To	otal Cost
Water	System			
V1W1	30" Water Line	From the water tank south of Village 1 to Oak Tree Lane South, upsize from 16" water line.	\$	273,100
V1W2	30" Water Line	From W1, east along Oak Tree Lane South to the entrance of the Hidden Hills subdivision, upsize from 16" water line.	\$	448,500
V1W3	30" Water Line	Along Oak Tree Lane South, from the entrance of the Hidden Hills subdivision to the connection with the proposed 24" water line, upsize from 16" water line.	\$	147,800
V1W4	18" Water Line	Along Oak Tree Lane South, from the end of the 30" pipe to the intersection of Oak Tree Lane and McBean Park Drive, upsize from 16" water line.	\$	65,800
V1W5	24" Water Line	Relocate 24" Waterline in the area of the new culvert crossing of Oak Tree Lane approximately 200 LF	\$	17,200
V1W6	24" Water Line	Along Oak Tree Lane North from Oak Tree Lane and McBean Park Drive intersection to the entrance to La Bella Rosa subdivision, upsize from 16" water line.	\$	332,300
V1W7	24" Water Line	Along Oak Tree Lane North, from the entrance to La Bella Rosa subdivision to Ferrari Ranch Road and Oak Tree Lane intersection, upsize from 16" water line.	\$	105,400
V1W8	18" Water Line	Along Oak Tree Lane North, from the intersection of Ferrari Ranch Road and Oak Tree Lane to Virginiatown Road, upsize from 16" water line.	\$	194,700
V1W9	18" Water Line	Along Virginiatown Road from the end of the existing 18" water line, east to 600 LF past the intersection of Oak Tree Lane and Virginiatown Road, upsize from 16" water line.	\$	35,700
V1W10	18" Water Line	Along State Route 193, east from Oak Tree Lane to east entrance of Turkey Creek Estates upsize from 16" water line.	\$	115,200
Total			\$	1,735,700



Village	er's Opinion of 1 PFE Eligible one Wastewater	Construction Items		
Item #	Improvement	Description	То	tal Cost
Waste	water Systen	n		
V1S1	30" Sewer Line	Along Ferrari Ranch Road North from the existing sewer at Ferrari Ranch Road and McBean Park Drive intersection, to the entrance to the bore and jack crossing, upsize from 12" sewer line.	\$	362,000
V1S2	24" Sewer Line	Along Ferrari Ranch Road North, from the bore and jack crossing to southwest boundary of La Bella Rosa subdivision, upsize from 10" sewer line.	\$	194,800
V1S3	24" Sewer Line	Along Ferrari Ranch Road North, from the southwest corner of La Bella Rosa subdivision to the intersection of Ferrari Ranch Road and Oak Tree Lane, full improvement cost.	\$	434,800
Total			\$	991,600



Village	Engineer's Opinion of Costs Village 1 PFE Eligible Construction Items Backbone Drainage					
Item #	Improvement	Description	<b>Total Cost</b>			
Storm	<b>Drainage Syst</b>	em				
V1D1	Ingram Slough Dam	Improve the existing dam, located east of Oak Tree Lane South; which benefits Lincoln Hills in addition to Village 1.	\$ 1,320,000			
Total			\$ 1,320,000			



**Engineer's Opinion of Costs** 

Village 1 PFE Eligible Construction Items

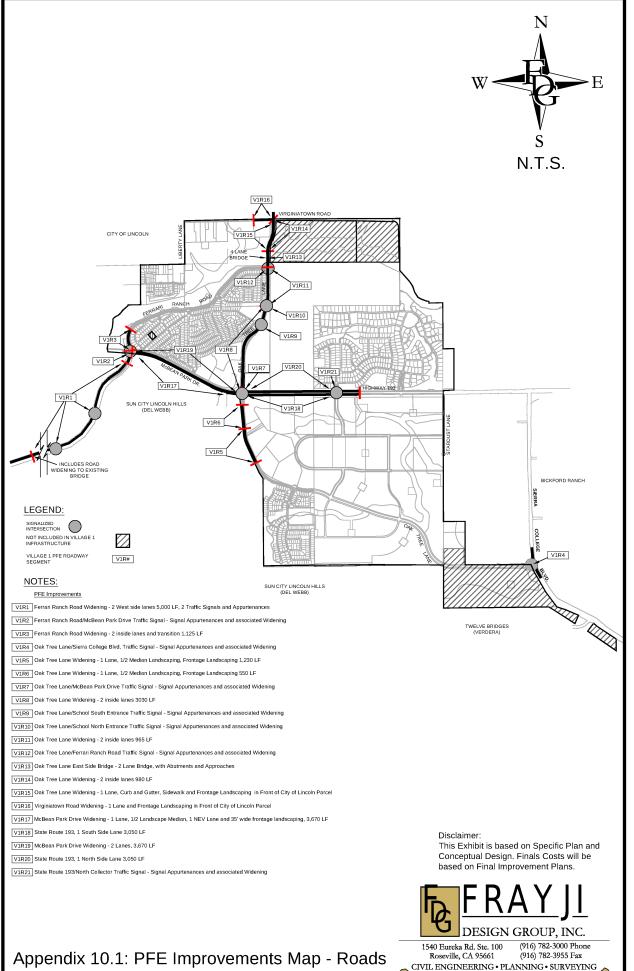
Frontage Landscaping

Frontage Landscaping							
Item #	Improvement	Description	<b>Total Cost</b>				
Fronta	Frontage Landscaping						
V1FL1	Ferrari Ranch Road South	Along Ferrari Ranch Road South from the existing bridge east of Lincoln Blvd. to McBean Park Drive, 5,000 LF of landscaping.	\$297,100				
V1FL 2	McBean Park Drive	South side of McBean Park Drive between west side of Ferrari Ranch Road and Oak Tree Lane, 3,760 LF of landscaping along Sun City Lincoln Hills.	\$763,000				
V1FL 3	Oak Tree Lane South	Along west side of Oak Tree Lane South in front of existing condo parcel, frontage landscaping.	\$45,800				
V1FL 4	Oak Tree Lane South	In addition to the FL3, west side of Oak Tree Lane South from the southern boundary of the condo parcel to the southeast corner of the church parcel, frontage landscaping.	\$102,300				
V1FL 5	Oak Tree Lane North	From the intersection of Oak Tree Lane and Virginiatown Road, south along the west side of Oak Tree Lane North to the southeast corner of the City property.	\$11,500				
V1FL 6	Virginiatown Road	From the intersection of Oak Tree Lane and Virginiatown Road, west along the south side of Virginiatown Road to the northwest corner of the City property.	\$17,800				
Total			\$1,237,500				

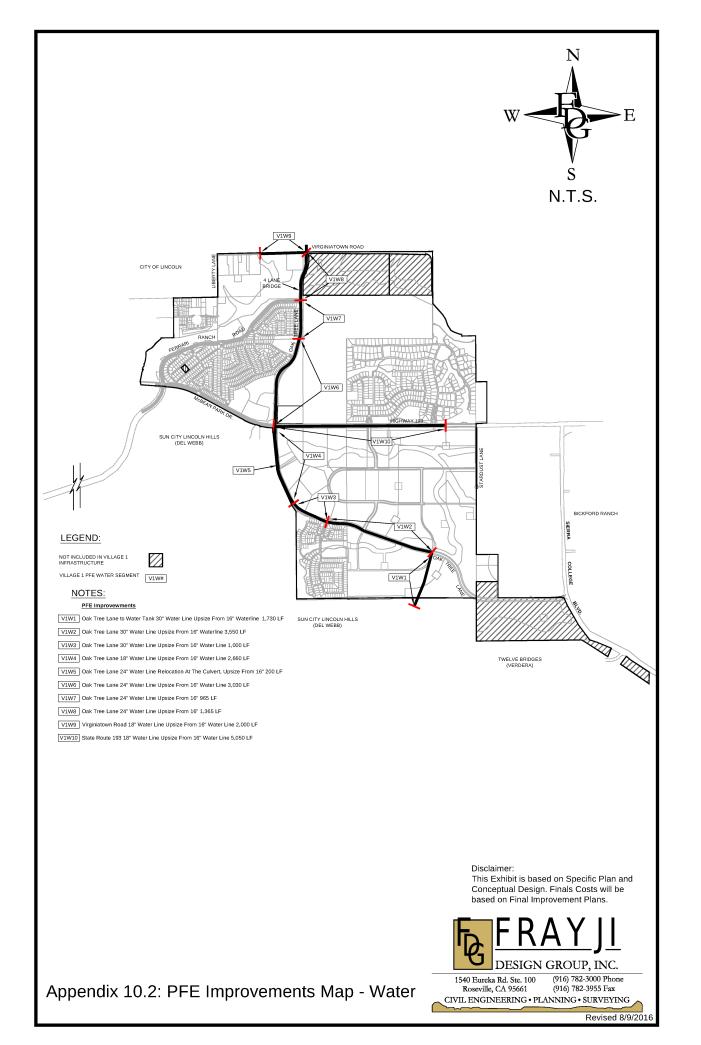


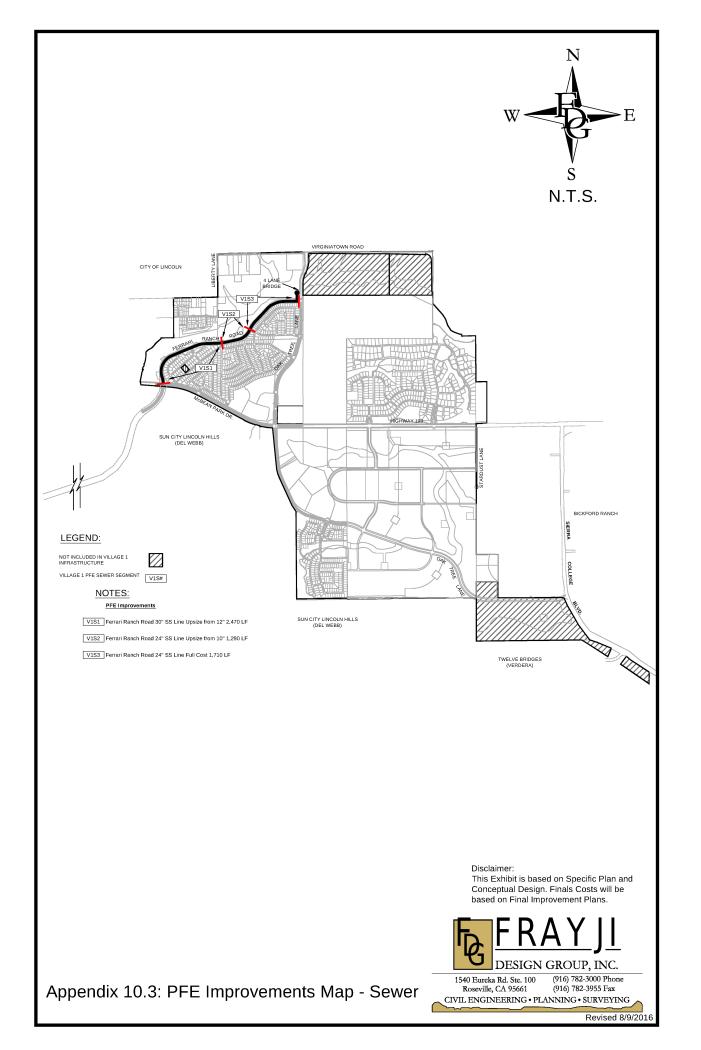
# Engineer's Opinion of Costs Village 1 PFE Eligible Construction Items

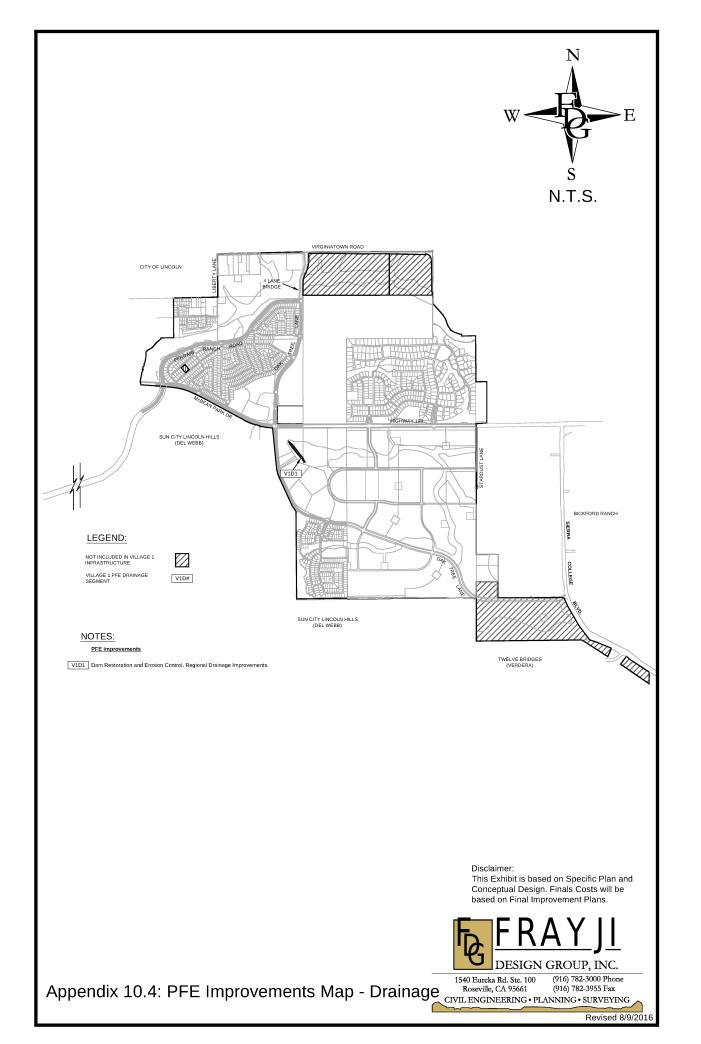
Item #	Improvement	Description	To	otal Cost
Trails	System			
	- <b>J</b>			
		Along Ferrari Ranch Road North from the Ferrari Ranch Road and McBean		
V1TR1	10' Wide Trail	Park Drive intersection to Ferrari Ranch Road and the La Bella Rosa	\$	216,000
	10 Wide Hair	subdivision entrance. Asphalt trail and striping, 3,760 LF.	Ť	,,,,,,,
		Along Ferrari Ranch Road North from the entrance to La Bella Rosa		
V1TR2	10' Wide Trail	subdivision to the intersection of Ferrari Ranch Road and Oak Tree Lane,	\$	126,400
		Asphalt trail and striping. 1,710 LF.	•	,
		Along McBean Park Drive from the Ferrari Ranch Road and McBean Park		
V1TR3	8' Wide Trail	Drive intersection to the southeast corner of the Epick 3 subdivision, Asphalt	\$	13,100
		trail, 350 LF.		
		Along McBean Park Drive from the southeast corner of the Epick 3		
V1TR4	8' Wide Trail	subdivision to the southeast corner of the Enclave at Horizon Edge subdivision,	\$	53,200
		Asphalt trail, 1420 LF.		
		Along McBean Park Drive from the southeast corner of the Enclave at Horizon		
V1TR5	8' Wide Trail	Edge subdivision to the entrance to the Walkup Ranch subdivision, Asphalt	\$	11,200
		Trail, 300 LF.		
		Along McBean Park Drive, from the entrance to Walkup Ranch subdivision to		
V1TR6	8' Wide Trail	the McBean Park Drive and Oak Tree Lane intersection, Asphalt Trail, 1,600	\$	59,900
		LF.		
		Along the south side of State Route 193, from the intersection of Oak Tree		
V1TR7	8' Wide Trail	Lane and State Route 193 to the northeast corner of APN: 021—274-033	\$	28,500
		(Highmark parcel), Asphalt Trail, 760 LF.		
		Along the south side of State Route 193, from the northeast corner of APN:		
V1TR8	8' Wide Trail	021—274-033 (Highmark parcel), to the North/South Collector Road, Asphalt	\$	72,800
		trail, 1,940 LF.		
V1TR9	8' Wide Trail	Along the south side of State Route 193, from the North/South Collector Road	\$	22,000
V11113	o wide man	to 590 LF east of the North/ South Collector Road. Asphalt trail, 590 LF.	Ψ	22,000
		Along the south side of State Route 193, from 590 LF east of the North/South		
V1TR10	8' Wide Trail	Collector Road to the northwest corner of APN: 021-274-037. Asphalt Trail,	\$	65,200
		1,740 LF.		
V1TR11	8' Wide Trail	Along the south side of State Route 193, from the northwest corner of APN:	\$	37,500
	o wae man	021-274-037 to the eastern boundary of Village 1. Asphalt Trail, 1,000 LF.	Ψ.	0.,000
		Connecting Oak Tree Lane South with the proposed North/South Collector		
V1TR12	10' Wide Trail	Road. This trail will also go around the existing lake feature located near the	\$	338,000
		Regional Park. Asphalt Trail and striping, 5,885 LF		
V1TR13	10' Wide Trail	Through the proposed park connecting the North and South Collector Road.	\$	36,000
		Asphalt trail and striping, 960 LF	Ĺ	-,
V1TR14	10' Wide Trail	At the southern border of Village 1 (near the existing water tank) to connect	\$	34,400
		the existing trail system to Village 1. Asphalt trail and striping. 600 LF.		
V1TR15	8' Wide Trail	From Oak Tree Lane North to the eastern Village 1 boundary across the top of	\$	216,900
Total		the Turkey Creek Golf Course. Asphalt Trail, 3,780 LF.	_	
1 otai			\$	1,331,100

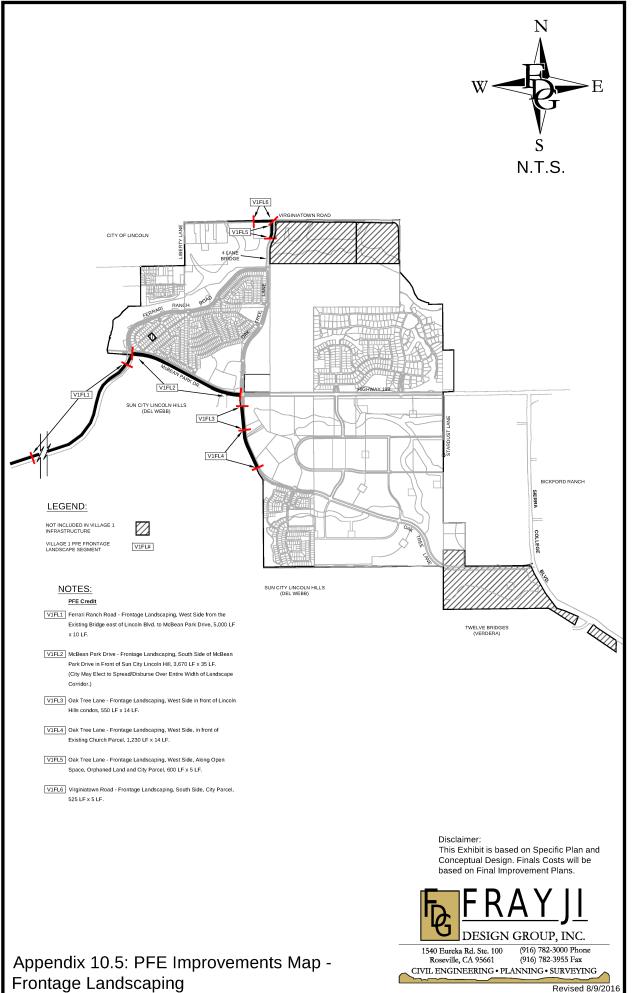


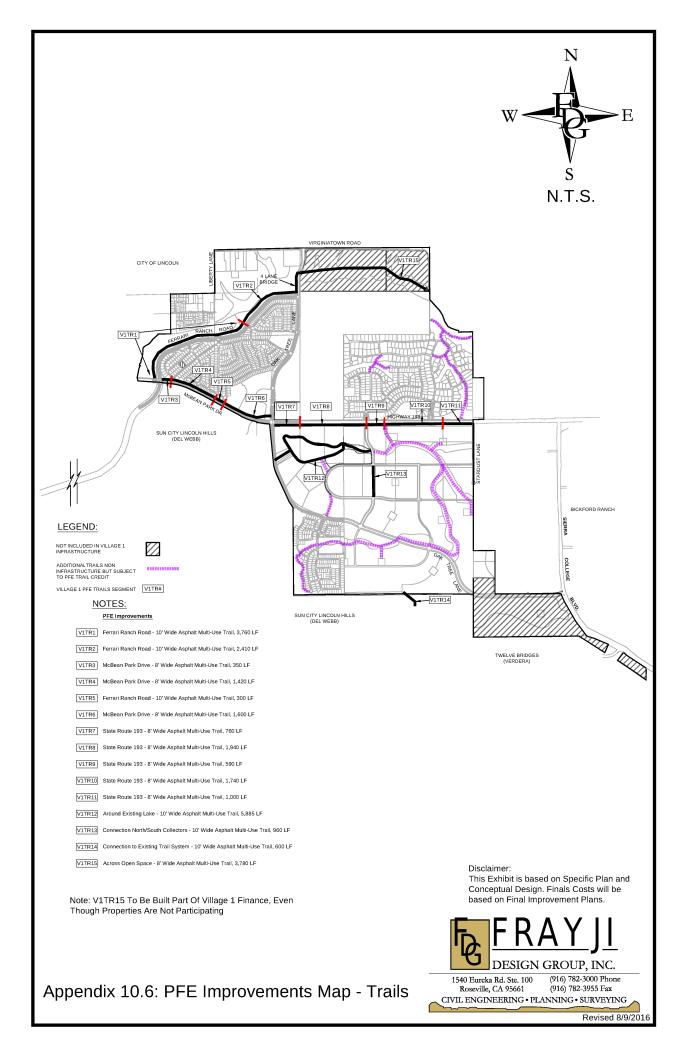
Revised 8/9/2016











# Residential PFE Fees per EDU SOUTH - Very Low Density

PFE FEE DESCRIPTION	N	lon-Critical	Critical	Α	dmin. Fee	Т	OTAL FEE
Sewer Connection	\$	7,983.80	\$ -	\$	199.60	\$	8,183.40
Water Connection							
Storage	\$	7,296.77	\$ -	\$	181.74	\$	7,478.51
Groundwater & Transmission	\$	6,130.72	\$ 74.59	\$	154.42	\$	6,359.73
	\$	13,427.49	\$ 74.59	\$	336.16	\$	13,838.24
Transportation	\$	2,945.42	\$ 601.06	\$	89.29	\$	3,635.77
Drainage							
South	\$	327.86	\$ 1,016.78	\$	33.62	\$	1,378.26
Community Services Fee							
Park Construction Fee	\$	4,080.14	\$ -	\$	101.90	\$	4,182.04
Police	\$	1,070.46	\$ -	\$	26.26	\$	1,096.72
Fire	\$	543.11	\$ -	\$	13.66	\$	556.77
City Administration	\$	947.55	\$ -	\$	23.11	\$	970.66
Library	\$	-	\$ -	\$	_	\$	-
Solid Waste	\$	781.57	\$ _	\$	19.96	\$	801.53
	\$	7,422.83	\$ _	\$	184.89	\$	7,607.72
TOTALS	\$	32,107.40	\$ 1,692.43	\$	843.56	\$	34,643.39

# Residential PFE Fees per EDU SOUTH - Low Density

PFE FEE DESCRIPTION	N	lon-Critical	Critical	A	dmin. Fee	T	OTAL FEE
Sewer Connection	\$	6,286.19	\$ -	\$	157.58	\$	6,443.77
Water Connection		<u></u>			<del></del>		
Storage	\$	3,079.02	\$ -	\$	76.69	\$	3,155.71
Groundwater & Transmission	\$	2,586.43	\$ 31.42	\$	65.13	\$	2,682.98
	\$	5,665.45	\$ 31.42	\$	141.82	\$	5,838.69
Transportation	\$	2,945.42	\$ 601.06	\$	89.29	\$	3,635.77
Drainage			 				
South	\$	252.04	\$ 781.66	\$	26.26	\$	1,059.96
Community Services Fee							
Park Construction Fee	\$	4,080.14	\$ -	\$	101.90	\$	4,182.04
Police	\$	1,070.46	\$ -	\$	26.26	\$	1,096.72
Fire	\$	543.11	\$ _	\$	13.66	\$	556.77
City Administration	\$	947.55	\$ -	\$	23.11	\$	970.66
Library	\$	-	\$ -	\$	-	\$	-
Solid Waste	\$	781.57	\$ -	\$	19.96	\$	801.53
	\$	7,422.83	\$ -	\$	184.89	\$	7,607.72
TOTALS	\$	22,571.93	\$ 1,414.14	\$	599.84	\$	24,585.91

# Residential PFE Fees per EDU SOUTH - Medium Density

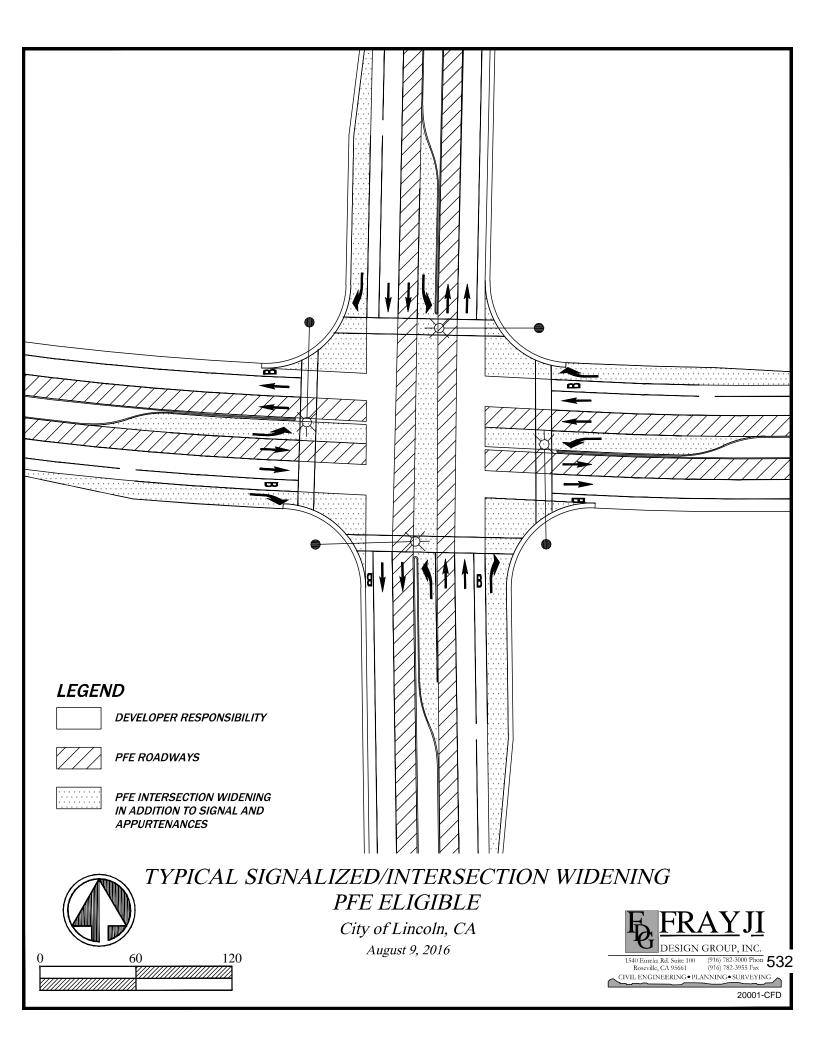
PFE FEE DESCRIPTION		lon-Critical	Critical	Α	dmin. Fee	Т	OTAL FEE
Sewer Connection	\$	6,286.19	\$ -	\$	157.58	\$	6,443.77
Water Connection	-						
Storage	\$	3,079.02	\$ -	\$	76.69	\$	3,155.71
Groundwater & Transmission	\$	2,586.43	\$ 31.42	\$	65.13	\$	2,682.98
	\$	5,665.45	\$ 31.42	\$	141.82	\$	5,838.69
Transportation	\$	2,120.96	\$ 432.81	\$	64.08	\$	2,617.85
Drainage							
North	\$	176.48	\$ 547.31	\$	17.86	\$	741.65
Community Services Fee							
Park Construction Fee	\$	4,080.14	\$ -	\$	101.90	\$	4,182.04
Police	\$	1,070.46	\$ -	\$	26.26	\$	1,096.72
Fire	\$	543.11	\$ _	\$	13.66	\$	556.77
City Administration	\$	947.55	\$ -	\$	23.11	\$	970.66
Library	\$	-	\$ 	\$	-	\$	-
Solid Waste	\$	781.57	\$ -	\$	19.96	\$	801.53
	\$	7,422.83	\$ -	\$	184.89	\$	7,607.72
TOTALS	\$	21,671.91	\$ 1,011.54	\$	566.23	\$	23,249.68

# Residential PFE Fees per EDU SOUTH - High Density

PFE FEE DESCRIPTION	N	lon-Critical	Critical	Α	dmin. Fee	-	TOTAL FEE
Sewer Connection	\$	5,028.74	\$ -	\$	125.01	\$	5,153.75
Water Connection							
Storage	\$	1,661.89	\$ _	\$	42.02	\$	1,703.91
Groundwater & Transmission	\$	1,397.01	\$ 16.97	\$	34.67	\$	1,448.65
	\$	3,058.90	\$ 16.97	\$	76.69	\$	3,152.56
Transportation	\$	2,120.96	\$ 432.81	\$	64.08	\$	2,617.85
Drainage							
North	\$	60.42	\$ 187.49	\$	6.30	\$	254.21
Community Services Fee							
Park Construction Fee	\$	2,937.20	\$ _	\$	73.54	\$	3,010.74
Police	\$	771.07	\$ _	\$	18.91	\$	789.98
Fire	\$	391.84	\$ -	\$	9.45	\$	401.29
City Administration	\$	681.77	\$ -	\$	16.81	\$	698.58
Library	\$	-	\$ -	\$	-	\$	-
Solid Waste	\$	562.02	\$ 	\$	14.71	\$	576.73
	\$	5,343.90	\$ -	\$	133.42	\$	5,477.32
TOTALS	\$	15,612.92	\$ 637.27	\$	405.50	\$	16,655.69

# APPENDIX 11 Lincoln Village 1 Specific Plan Infrastructure Finance Plan Typical Signalized/ Intersection Widening PFE Eligible Diagram





# APPENDIX 12 Lincoln Village 1 Specific Plan Infrastructure Finance Plan Cost Summaries per Phase (Phase 1 thru 8)





## **Engineer's Opinion of Costs**

Village 1: Phase 1 & 2 Combine - Infrastructure Costs

Description		VCE	VLDR	VMDR	VHDR		VMU		Total
Number of Units		204	916	0	0		0		1120
Acres		102	229.1	0	0		0		331.1
Infrastructure Costs per Land Use for Phase 1 + Phas	e 2					•			
Water	\$	1,161,500	\$ 2,200,500	\$ -	\$ -	\$	-	\$	3,362,000
Amenities	\$	523,100	\$ 991,000	\$ -	\$ -	\$	-	\$	1,514,100
Roadway	\$	3,057,100	\$ 13,726,800	\$ -	\$ -	\$	-	\$	16,783,900
Wastewater	\$	472,500	\$ 1,670,400	\$ -	\$ -	\$	-	\$	2,142,900
Drainage	\$	1,294,200	\$ 4,470,100	\$ -	\$ -	\$	-	\$	5,764,300
Trails, Landscaping and Parks	\$	137,300	\$ 616,300	\$ -	\$ -	\$	-	\$	753,600
Subtotal for Phase 1 & 2	\$	6,645,700	\$ 23,675,100	\$ -	\$ -	\$	-	\$	30,320,800
Infrastructure Costs Per Land Use (Based on Develop	able A	Acres)							
Water	\$	11,387	\$ 9,605	\$ -	\$ -	\$	-		
Amenities	-	5,128	\$ 4,326	\$ -	\$ -	\$	-		
Roadway	\$	29,972	\$ 59,916	\$ -	\$ -	\$	-		
Wastewater	\$	4,632	\$ 7,291	\$ -	\$ -	\$	-		
Drainage		12,688	\$ 19,512	\$ -	\$ -	\$	-		
Trails, Landscaping and Parks		1,346	\$ 2,690	\$ -	\$ -	\$	-		
Subtotal per Developable Acres for Phase 1 & 2	\$	65,154	\$ 103,340	\$ -	\$ -	\$	-		
Subtotal per Developable Acres for Village 1	\$	49,421	\$ 78,602	\$ 	\$ 	\$	-		
Difference	\$	15,733	\$ 24,737	\$ -	\$ -	\$	-	1	



# Engineer's Opinion of Costs Village 1: Phase 1 & 2 Combine - Infrastructure Costs (Costs per Land Use Based on PFE Weighted Factor)

Description	VCE		VLDR	VMDR	VHDR	VMU	Total
Number of Units	204		916	0	0	0	1120
Acres	102		229.1	0	0	0	331.1
PFE Infrastructure Costs per Land Use Phase 1 & 2							
Water	\$ 218,100	\$	413,300	\$ -	\$ -	\$ -	\$ 631,400
Amenities	\$ 51,200	\$	96,900	\$ -	\$ -	\$ -	\$ 148,100
Roadway	\$ 516,900	\$	2,321,100	\$ -	\$ -	\$ -	\$ 2,838,000
Wastewater	\$ 122,800	\$	434,000	\$ -	\$ -	\$ -	\$ 556,800
Drainage	\$ -	\$	-	\$ -	\$ -	\$ -	\$ -
Trails, Landscaping and Parks	\$ -	\$	-	\$ -	\$ -	\$ -	\$ -
Subtotal for Phase 1 & 2	\$ 909,000	\$	3,265,300	\$ -	\$ -	\$ -	\$ 4,174,300
PFE Infrastructure Costs per Land Use (Based on Dev	elopable Acres	)					
Water	\$ 2,138	\$	1,804	\$ -	\$ -	\$ -	
Amenities	\$ 502	\$	423	\$ -	\$ -	\$ -	
Roadway	\$ 5,068	\$	10,131	\$ -	\$ -	\$ -	
Wastewater	\$ 1,204	\$	1,894	\$ -	\$ 	\$ -	
Drainage		\$	-	\$ -	\$ -	\$ -	
Trails, Landscaping and Parks	\$ -	\$	-	\$ -	\$ -	\$ -	
Subtotal for Phase 1 & 2	\$ 8,912	\$	14,253	\$ -	\$ -	\$ -	-

Developable area is from the Specific Plan. EDU per Acre is as follows: VCE 2, VLDR 4, VMDR 8, VHDR 18, VMU 18



## **Engineer's Opinion of Costs** Village 1: Phase 1- Infrastructure Costs (Costs per Land Use Based on PFE Weighted Factor) VMU VCE VLDR VMDR VHDR Total **Number of Units** 28 505 0 0 0 533 Acres 13.8 126.3 0 0 0 140.1 Infrastructure Costs per Land Use for Phase 1 2,187,721 \$ \$ Water \$ 287,479 \$ \$ 2,475,200 Amenities \$ 136,063 \$ 1,035,437 \$ \$ \$ \$ 1,171,500 Roadway \$ 716,989 \$ \$ 12,931,411 \$ 13,648,400 1,737,800 \$ \$ Wastewater \$ 114,319 1,623,481 \$ 365,116 5,065,484 5,430,600 Drainage \$ Trails, Landscaping and Parks \$ 14,825 267,375 \$ \$ \$ 282,200 Subtotal for Phase 1 \$ 1,634,791 \$ 23,110,909 \$ \$ 24,745,700 Infrastructure Costs Per Land Use (Based on Developable Acres) Water \$ 20,832 \$ 17,322 \$ \$ \$ Amenities \$ 9,860 8,198 51,956 102.386 \$ Roadway \$ Wastewater \$ 8.284 12,854 \$ \$ \$ \$ Drainage \$ 26,458 \$ 40,107 -1,074 \$ \$ 2,117 \$ Trails, Landscaping and Parks \$ Subtotal per Developable Area for Phase 1 \$ 118,463 \$ 182,984 \$ \$ \$ -Subtotal per Developable Area for Village 1 \$ 49,421 \$ 78,602 \$ \$ Difference \$ 69,042 104,382 \$ \$



Engineer's Opinion of Costs										
Village 1: Phase 1- Infrastructure Costs										
(Costs per Land Use Based on PFE Weighte	d Factor)									
(COSIS PEL LANG OSE BASEG ON THE WEIGHTE	VCE	Т	VLDR	l l	VMDR	l	VHDR	ı	VMU	Total
Number of Unite	28		505							533
Number of Units					0		0		0	
Acres	13.8		126.3	<u> </u>	0		0		0	140.1
PFE Infrastructure Costs per Land Use for Phase										
Water	\$ 54,367	\$	413,733	\$	-	\$	-	\$	-	\$ 468,100
Amenities	\$ 17,201	\$	130,899	\$	-	\$	-	\$	-	\$ 148,100
Roadway	\$ 149,088	\$	2,688,912	\$	-	\$	-	\$	-	\$ 2,838,000
Wastewater	\$ 23,814	\$	338,186	\$	-	\$	-	\$	-	\$ 362,000
Drainage	\$ -	\$	-	\$	-	\$	-	\$	-	\$ -
Trails, Landscaping and Parks		\$	-	\$	-	\$	-	\$	-	\$ -
Subtotal for Phase 1	\$ 244,470	\$	3,571,730	\$	-	\$	-	\$	-	\$ 3,816,200
PFE Infrastructure Costs per Land Use (Based o	n Developable	Acres	s)							
Water	\$ 3,940	\$	3,276	\$	-	\$	-	\$	-	
Amenities	\$ 1,246	\$	1,036	\$	-	\$	-	\$	-	
Roadway	\$ 10,803	\$	21,290	\$	-	\$	-	\$	-	
Wastewater	\$ 1,726	\$	2,678	\$	-	\$	-	\$	-	
Drainage	\$ -	\$	-	\$	-	\$	-	\$	-	
Trails, Landscaping and Parks		\$	-	\$	-	\$	-	\$	-	
Subtotal for Phase 1	\$ 17,715	\$	28,280	\$	-	\$	-	\$	-	
	·		·							

Developable area is from the Specific Plan. EDU per Acre is as follows: VCE 2, VLDR 4, VMDR 8, VHDR 18, VMU 18



## **Engineer's Opinion of Costs**

Village 1: Phase 2 - Infrastructure Costs

		VCE		VLDR	VMDR	VHDR	VMU	Total
Number of Units		176		411	0	0	0	587
Acres		88.2		102.8	0	0	0	191
frastructure Costs per Land Use for Phase 2								
Water	\$	446,677	\$	440,123	\$ -	\$ -	\$ -	\$ 886,80
Amenities	\$	172,566	\$	170,034	\$ -	\$ -	\$ -	\$ 342,60
Roadway	\$	940,116	\$	2,195,384	\$ -	\$ -	\$ -	\$ 3,135,50
Wastewater	\$	142,703	\$	262,397	\$ -	\$ -	\$ -	\$ 405,10
Drainage	\$	119,335	\$	214,365	\$ -	\$ -	\$ -	\$ 333,70
Trails, Landscaping and Parks	\$	141,340	\$	330,060	\$ -	\$ -	\$ -	\$ 471,40
Subtotal for Phase 2	\$	1,962,736	\$	3,612,364	\$ -	\$ -	\$ -	\$ 5,575,10
nfrastructure Costs Per Land Use (Based on Do	evelo	ppable Acres	)					
Water	\$	5,064	\$	4,281	\$ -	\$ -	\$ -	
Amenities	\$	1,957	\$	1,654	\$ -	\$ -	\$ -	
Roadway	\$	10,659	\$	21,356	\$ -	\$ -	\$ -	
Wastewater	\$	1,618	\$	2,552	\$ -	\$ -	\$ -	
Drainage	\$	1,353	\$	2,085	\$ -	\$ -	\$ -	
Trails, Landscaping and Parks	\$	1,602	\$	3,211	\$ -	\$ -	\$ -	
Subtotal per Developable Area for Phase 2	\$	22,253	\$	35,140	\$ -	\$ -	\$ -	
Subtotal per Developable Area for Village 1		49,421	\$	78,602	_	\$ -	\$ -	
Subtotal per Developable Area for Village I								



## **Engineer's Opinion of Costs** Village 1: Phase 2 - Infrastructure Costs (Costs per Land Use Based on PFE Weighted Factor) VMDR VMU VCE VLDR VHDR Total **Number of Units** 176 411 0 0 0 587 Acres 88.2 102.8 0 0 0 191 PFE Infrastructure Costs per Land Use for Phase 2 82,253 \$ 81,047 \$ \$ \$ \$ Water \$ 163,300 \$ \$ Amenities \$ \$ \$ \$ Roadway \$ \$ \$ \$ \$ \$ Wastewater \$ 68,621 \$ 126,179 \$ \$ \$ \$ 194,800 \_ \$ Drainage \$ \$ Trails, Landscaping and Parks \$ \$ \$ \$ \$ \$ Subtotal for Phase 2 \$ 150,875 \$ 207,225 \$ \$ 358,100 PFE Infrastructure Costs per Land Use (Based on Developable Acres) Water \$ 933 788 \$ \$ \$ \$ \$ \$ \$ Amenities \$ Roadway \$ \$ \$ \$ \$ Wastewater \$ 778 \$ 1,227 \$ \$ \$ --\$ Drainage \$ \$ \$ \$ Trails, Landscaping and Parks \$ \$ \$ \$ \$ Subtotal for Phase 2 \$ 1,711 \$ 2,016 \$ \$

Developable area is from the Specific Plan. EDU per Acre is as follows: VCE 2, VLDR 4, VMDR 8, VHDR 18, VMU 18



Engineer's Opinion of Costs
Village 1: Phase 3 - Infrastructure Costs

		VCE		VLDR		VMDR	VHDR	VMU		Total
Number of Units		0		562		136	0	196		894
Acres		0		140.3		17	0	10.9		168.2
Infrastructure Costs per Land Use for Phase 3										
Water	\$	-	\$	972,929	\$	235,442	\$ -	\$ 183,229	\$	1,391,600
Amenities	\$	-	\$	2,153,574	\$	521,149	\$ -	\$ 405,577	\$	3,080,300
Roadway	\$	-	\$	5,920,841	\$	1,031,617	\$ -	\$ 1,486,742	\$	8,439,200
Wastewater	\$	-	\$	118,541	\$	28,686	\$ -	\$ 33,073	\$	180,300
Drainage	\$	-	\$	1,219,619	\$	206,597	\$ -	\$ 102,083	\$	1,528,300
Trails, Landscaping and Parks	\$	-	\$	252,763	\$	61,167	\$ -	\$ 63,470	\$	377,400
Subtotal for Phase 3	\$	-	\$	10,638,267	\$	2,084,659	\$ -	\$ 2,274,175	\$	14,997,100
Infrastructure Costs Per Land Use (Based on De	velo	pable Acres)	)							
Water	\$	-	\$	6,935	\$	13,850	\$ -	\$ 16,810		
Amenities	\$	-	\$	15,350	\$	30,656	\$ -	\$ 37,209		
Roadway	\$	-	\$	42,201	\$	60,683	\$ -	\$ 136,398		
Wastewater	\$	-	\$	845	\$	1,687	\$ -	\$ 3,034		
Drainage		-	\$	8,693	\$	12,153	\$ -	\$ 9,365		
Trails, Landscaping and Parks		-	\$	1,802	\$	3,598	\$ -	\$ 5,823		
Subtotal per Developable Area for Phase 3		-	\$	75,825	\$	122,627	\$ -	\$ 208,640		
Subtotal per Developable Area for Village 1		_	\$	78,602	\$	122,573	\$ -	\$ 222,426		
Difference			\$	(2,777)	•	54		\$ (13,786)	-	

Total



Engineer's Opinion of Costs

Village 1: Phase 3 - Infrastructure Costs
(Costs per Land Use Based on PFE Weighted Factor)

VCE VLDR VMDR VHDR VMU

Number of Units 0 562 136 0 196

Acres 0 140.3 17 0 10.9

Number of Units		0	562	136	0	196	894
Acres		0	140.3	17	0	10.9	168.2
PFE Infrastructure Costs per Land Use for Phas	e 3						
Water	\$	-	\$ 420,186	\$ 101,682	\$ -	\$ 79,132	\$ 601,000
Amenities	\$	-	\$ 207,716	\$ 50,266	\$ -	\$ 39,119	\$ 297,100
Roadway	\$	-	\$ 4,603,329	\$ 802,060	\$ -	\$ 1,155,911	\$ 6,561,300
Wastewater	\$	-	\$ 285,865	\$ 69,177	\$ -	\$ 79,757	\$ 434,800
Drainage	\$	-	\$ 94,805	\$ 16,060	\$ -	\$ 7,935	\$ 118,800
Trails, Landscaping and Parks	\$	-	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal for Phase 3	\$	-	\$ 5,611,901	\$ 1,039,245	\$ -	\$ 1,361,854	\$ 8,013,000

PFE Infrastructure Costs per Land Use (Based of	on De	evelopable A	cres	)				
Water	\$	-	\$	2,995	\$ 5,981	\$ -	\$ 7,260	
Amenities	\$	-	\$	1,481	\$ 2,957	\$ -	\$ 3,589	
Roadway	\$	-	\$	32,811	\$ 47,180	\$ -	\$ 106,047	
Wastewater	\$	-	\$	2,038	\$ 4,069	\$ -	\$ 7,317	
Drainage	\$	-	\$	676	\$ 945	\$ -	\$ 728	
Trails, Landscaping and Parks	\$	-	\$	-	\$ -	\$ -	\$ -	
Subtotal for Phase 3	\$	-	\$	39,999	\$ 61,132	\$ -	\$ 124,941	

Developable area is from the Specific Plan. EDU per Acre is as follows: VCE 2, VLDR 4, VMDR 8, VHDR 18, VMU 18



# Engineer's Opinion of Costs Village 1: Phase 4 - Infrastructure Costs (Costs per Land Use Based on PEE Weig

		VCE		VLDR		VMDR		VHDR		VMU	Total
Number of Units		114		29		187		157		184	671
Acres		57		7.3		23.4		8.7		10.2	106.6
nfrastructure Costs per Land Use for Phase 4											
Water	\$	412,977	\$	44,327	\$	285,834	\$	129,588	\$	151,874	\$ 1,024,600
Amenities	\$	157,476	\$	16,903	\$	108,994	\$	49,415	\$	57,913	\$ 390,700
Roadway	\$	1,331,736	\$	338,775	\$	1,572,850	\$	1,320,521	\$	1,547,617	\$ 6,111,500
Wastewater	\$	221,336	\$	44,334	\$	285,881	\$	192,014	\$	225,035	\$ 968,600
Drainage	\$	316,019	\$	61,839	\$	279,128	\$	80,348	\$	94,166	\$ 831,500
Trails, Landscaping and Parks	\$	14,698	\$	3,739	\$	24,109	\$	14,574	\$	17,080	\$ 74,200
Subtotal for Phase 4	\$	2,454,241	\$	509,917	\$	2,556,797	\$	1,786,460	\$	2,093,686	\$ 9,401,100
nfrastructure Costs Per Land Use (Based on Do	evel	opable Acres	)								
Water	\$	7,245	\$	6,072	\$	12,215	\$	14,895	\$	14,890	
Amenities	\$	2,763	\$	2,315	\$	4,658	\$	5,680	\$	5,678	
Roadway	\$	23,364	\$	46,408	\$	67,216	\$	151,784	\$	151,727	
Wastewater	\$	3,883	\$	6,073	\$	12,217	\$	22,071	\$	22,062	
Drainage	\$	5,544	\$	8,471	\$	11,929	\$	9,235	\$	9,232	
Trails, Landscaping and Parks		258	\$	512	\$	1,030	\$	1,675	\$	1,675	
Subtotal per Developable Area for Phase 4		43,057	\$	69,852	\$	109,265	\$	205,340	\$	205,263	
oubtotal per bevelopable Area for i flase 4					-		-	222,677	\$	•	
Subtotal per Developable Area for Village 1	\$	49,421	\$	78,602	\$	122,573	Ð	222,011	T D	222,426	



**Engineer's Opinion of Costs** Village 1: Phase 4 - Infrastructure Costs (Costs per Land Use Based on PFE Weighted Factor) VMU VCE VLDR VMDR VHDR Total **Number of Units** 114 29 187 671 157 184 Acres 57 7.3 23.4 8.7 10.2 106.6 PFE Infrastructure Costs per Land Use for Phase 4 273,100 Water \$ 110,076 \$ 11,815 \$ 76,187 \$ 34,541 \$ 40,481 \$ 307,536 \$ 33,010 \$ \$ 113,098 \$ Amenities \$ 212,855 96,502 763,000 Roadway \$ 274.867 \$ 69.922 \$ 324.633 \$ 272,553 319.425 \$ 1,261,400 Wastewater \$ \$ \$ \$ \$ \$ Drainage \$ 1,320,000 501,677 \$ 98,169 \$ 443,114 \$ 127,552 \$ 149,488 \$ Trails, Landscaping and Parks \$ \$ \$ \$ \$ Subtotal for Phase 4 \$ 1,194,156 \$ 212,916 \$ 1,056,789 \$ 531,147 \$ 622,491 \$ 3,617,500 PFE Infrastructure Costs per Land Use (Based on Developable Acres) Water \$ 1,931 \$ 1,619 \$ 3,256 \$ 3,970 \$ 3.969 \$ 9,096 \$ 11,088 Amenities \$ 5,395 \$ 4,522 11,092 \$ Roadway \$ 4,822 \$ 9,578 \$ 13,873 \$ 31,328 \$ 31,316 Wastewater \$ \$ \$ \$ \$ Drainage \$ 8,801 \$ \$ 18,937 \$ 14,661 13,448 14,656 Trails, Landscaping and Parks \$ \$ Subtotal for Phase 4 \$ 20,950 \$ 29,167 \$ 45,162 \$ 61,051 \$ 61,029

Developable area is from the Specific Plan. EDU per Acre is as follows: VCE 2, VLDR 4, VMDR 8, VHDR 18, VMU 18



## Engineer's Opinion of Costs Village 1: Phase 5 - Infrastructure Costs

		VCE		VLDR		VMDR		VHDR		VMU		Total	
Number of Units		40		128		229		362		158		917	
Acres		19.8		32.1		28.6		20.1		8.8		109.4	
frastructure Costs per Land Use for Phase 5											•		
Water	\$	68,583	\$	92,602	\$	165,670	\$	141,420	\$	61,725	\$	530,000	
Amenities	\$	72,853	\$	98,367	\$	175,986	\$	150,226	\$	65,568	\$	563,000	
Roadway	\$	357,703	\$	1,144,649	\$	1,474,451	\$	2,330,791	\$	1,017,307	\$	6,324,900	
Wastewater	\$	15,040	\$	37,897	\$	67,799	\$	85,741	\$	37,423	\$	243,900	
Drainage	\$	113,973	\$	280,549	\$	351,343	\$	190,422	\$	83,113	\$	1,019,400	
Trails, Landscaping and Parks	\$	41,509	\$	132,829	\$	237,639	\$	270,472	\$	118,051	\$	800,500	
Subtotal for Phase 5	\$	669,661	\$	1,786,892	\$	2,472,888	\$	3,169,073	\$	1,383,186	\$	9,481,700	
frastructure Costs Per Land Use (Based on De	velo	pable Acres)	)										
Water	\$	3,464	\$	2,885	\$	5,793	\$	7,036	\$	7,014			
Amenities	\$	3,679	\$	3,064	\$	6,153	\$	7,474	\$	7,451			
Roadway	\$	18,066	\$	35,659	\$	51,554	\$	115,960	\$	115,603			
Wastewater	\$	760	\$	1,181	\$	2,371	\$	4,266	\$	4,253			
Drainage	\$	5,756	\$	8,740	\$	12,285	\$	9,474	\$	9,445			
Trails, Landscaping and Parks	\$	2,096	\$	4,138	\$	8,309	\$	13,456	\$	13,415			
Subtotal per Developable Area for Phase 5	\$	33,821	\$	55,666	\$	86,465	\$	157,665	\$	157,180			
Subtotal per Developable Area for Village 1	\$	49,421	\$	78,602		122,573	\$	222,677	\$	222,426			
Difference	•	(15,600)		(22,936)		(36,108)	•	(65,012)	<u></u>	(65,245)	1		



## **Engineer's Opinion of Costs** Village 1: Phase 5 - Infrastructure Costs (Costs per Land Use Based on PFE Weighted Factor) VMU VCE VLDR VMDR VHDR Total **Number of Units** 229 362 917 40 128 158 Acres 19.8 32.1 28.6 20.1 8.8 109.4 PFE Infrastructure Costs per Land Use for Phase 5 \$ \$ Water \$ \$ \$ \$ Amenities \$ \$ \$ \$ Roadway \$ 145.973 \$ 467,115 \$ 601.702 \$ 951.162 \$ 415,148 \$ 2.581.100 Wastewater \$ \$ \$ \$ \$ \$ \$ Drainage \$ \$ \$ \$ Trails, Landscaping and Parks \$ \$ \$ \$ \$ \$ Subtotal for Phase 5 \$ 145,973 \$ 467,115 \$ 601,702 \$ 951,162 \$ 415,148 \$ 2,581,100 PFE Infrastructure Costs per Land Use (Based on Developable Acres) Water \$ \$ \$ \$ \$ Amenities \$ Roadway \$ 7,372 \$ 14,552 \$ 21,039 \$ 47,321 \$ 47,176 Wastewater \$ \$ \$ \$ \$ \$ \$ Drainage \$ \$ \$ Trails, Landscaping and Parks \$ \$ \$ Subtotal for Phase 5 \$ 7,372 \$ 14,552 \$ 21,039 \$ 47,321 \$ 47,176

Developable area is from the Specific Plan. EDU per Acre is as follows: VCE 2, VLDR 4, VMDR 8, VHDR 18, VMU 18



# **Engineer's Opinion of Costs**

Village 1: Phase 6 - Infrastructure Costs

		VCE		VLDR		VMDR	VHDR		VMU		Total
Number of Units		18		455		105	0		164		742
Acres		9.1		113.7		13.1	0		9.1		145
nfrastructure Costs per Land Use for Phase 6								•		•	
Water	\$	28,958	\$	308,854	\$	71,274	\$ -	\$	60,115	\$	469,200
Amenities	\$	10,146	\$	108,217	\$	24,973	\$ -	\$	21,063	\$	164,400
Roadway	\$	72,942	\$	1,843,805	\$	306,355	\$ -	\$	478,498	\$	2,701,600
Wastewater	\$	9,431	\$	187,720	\$	43,320	\$ -	\$	54,129	\$	294,600
Drainage	\$	18,308	\$	355,991	\$	57,506	\$ -	\$	30,795	\$	462,600
Trails, Landscaping and Parks	\$	5,332	\$	134,785	\$	31,104	\$ -	\$	34,979	\$	206,200
Subtotal for Phase 6	\$	145,117	\$	2,939,371	\$	534,533	\$ -	\$	679,579	\$	4,298,600
nfrastructure Costs Per Land Use (Based on De	velo	pable Acres)	)								
Water	\$	3,182	\$	2,716	\$	5,441	\$ -	\$	6,606		
Amenities	\$	1,115	\$	952	\$	1,906	\$ -	\$	2,315		
Roadway	\$	8,016	\$	16,216	\$	23,386	\$ -	\$	52,582		
Wastewater	\$	1,036	\$	1,651	\$	3,307	\$ -	\$	5,948		
Drainage	\$	2,012	\$	3,131	\$	4,390	\$ -	\$	3,384		
Trails, Landscaping and Parks	\$	586	\$	1,185	\$	2,374	\$ -	\$	3,844		
Subtotal per Developable Area for Phase 6		15,947	\$	25,852	\$	40,804	\$ _	\$	74,679		
Subtotal per Developable Area for Village 1		49,421	\$	78,602	\$	122,573	-	\$	222,426		
Difference		(33,474)		(52,750)	-:-	(81,768)		\$	(147,747)		



## **Engineer's Opinion of Costs** Village 1: Phase 6 - Infrastructure Costs (Costs per Land Use Based on PFE Weighted Factor) VMDR VMU VCE VLDR VHDR Total **Number of Units** 18 455 105 0 742 164 Acres 9.1 113.7 13.1 0 9.1 145 PFE Infrastructure Costs per Land Use for Phase 6 \$ \$ \$ \$ Water \$ \$ \$ \$ \$ Amenities \$ \$ Roadway \$ \$ \$ \$ \$ \$ Wastewater \$ \$ \$ \$ \$ \$ \$ \$ \$ Drainage \$ \$ Trails, Landscaping and Parks \$ \$ \$ \$ \$ \$ Subtotal for Phase 6 \$ \$ \$ \$ \$ PFE Infrastructure Costs per Land Use (Based on Developable Acres) Water \$ \$ \$ \$ Amenities \$ \$ \$ \$ \$ -Roadway \$ \$ \$ \$ \$ Wastewater \$ \$ \$ \$ \$ ---Drainage \$ \$ \$ \$ \$ Trails, Landscaping and Parks \$ \$ \$ \$ \$

\$

\$

\$

Developable area is from the Specific Plan. EDU per Acre is as follows: VCE 2, VLDR 4, VMDR 8, VHDR 18, VMU 18

Subtotal for Phase 6 \$



Engineer's Opinion of Costs
Village 1: Phase 7 - Infrastructure Costs

		VCE		VLDR	VMDR		VHDR	VMU		Total
Number of Units		93		0	0		0	0		93
Acres		46.3		0.0	0		0	0		46.3
frastructure Costs per Land Use for Phase 6						•			•	
Water	\$	570,000	\$	-	\$ -	\$	-	\$ -	\$	570,000
Amenities	\$	184,600	\$	-	\$ -	\$	-	\$ -	\$	184,600
Roadway	\$	9,026,300	\$	-	\$ -	\$	-	\$ -	\$	9,026,300
Wastewater	\$	-	\$	-	\$ -	\$	-	\$ -	\$	-
Drainage	\$	185,000	\$	-	\$ -	\$	-	\$ -	\$	185,000
Trails, Landscaping and Parks	\$	177,600	\$	-	\$ -	\$	-	\$ -	\$	177,600
Subtotal for Phase 7	\$	10,143,500	\$	-	\$ -	\$	-	\$ -	\$	10,143,500
frastructure Costs Per Land Use (Based on De	evel	pable Acres	)							
Water	\$	12,311	\$	-	\$ -	\$	-	\$ -		
Amenities	\$	3,987	\$	-	\$ -	\$	-	\$ -		
Roadway	\$	194,952	\$	-	\$ -	\$	-	\$ -		
Wastewater	\$	-	\$	-	\$ -	\$	-	\$ -		
Drainage	\$	3,996	\$	-	\$ -	\$	-	\$ -		
Trails, Landscaping and Parks	\$	3,836	\$	-	\$ -	\$	-	\$ -		
Subtotal per Developable Area for Phase 7		219,082	\$	-	\$ -	\$	-	\$ -		
Subtotal per Developable Area for Village 1		49,421	\$	-	\$ _	\$	-	\$ -		
Difference		169,661	\$		\$ -	\$		\$ 	+	



## **Engineer's Opinion of Costs** Village 1: Phase 7 - Infrastructure Costs (Costs per Land Use Based on PFE Weighted Factor) VMDR VMU VCE VLDR VHDR Total **Number of Units** 93 0 0 0 0 93 Acres 46.3 0.0 0 0 0 46.3 PFE Infrastructure Costs per Land Use for Phase 7 230,400 \$ \$ \$ \$ \$ 230,400 Water \$ \$ \$ Amenities \$ 29,300 \$ \$ \$ 29,300 Roadway \$ 8,981,400 \$ \$ \$ \$ \$ 8,981,400 Wastewater \$ \$ \$ \$ \$ \$ \$ \$ Drainage \$ \$ \$ Trails, Landscaping and Parks \$ \$ \$ \$ \$ \$ Subtotal for Phase 7 \$ 9,241,100 \$ \$ \$ 9,241,100 PFE Infrastructure Costs per Land Use (Based on Developable Acres) 4,976 \$ Water \$ \$ \$ \$ 633 \$ \$ \$ \$ Amenities \$ -Roadway \$ 193,983 \$ \$ \$ \$ Wastewater \$ \$ \$ \$ \$ ---\$ \$ \$ Drainage \$ \$ Trails, Landscaping and Parks \$ \$ \$ \$ \$ \$ Subtotal for Phase 7 \$ 199,592 \$ \$

Developable area is from the Specific Plan. EDU per Acre is as follows: VCE 2, VLDR 4, VMDR 8, VHDR 18, VMU 18



Engineer's Opinion of Costs
Village 1: Phase 8 - Infrastructure Costs

	'	/CE		VLDR		VMDR		VHDR	VMU		Total
Number of Units		0		0		71		0	0		71
Acres		0		0.0		8.9		0	0		8.9
frastructure Costs per Land Use for Phase 8					•		•			•	
Water	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-
Amenities	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-
Roadway	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-
Wastewater	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-
Drainage	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-
Trails, Landscaping and Parks	\$	-	\$	-	\$	243,200	\$	-	\$ -	\$	243,20
Subtotal for Phase 8	\$	-	\$	-	\$	243,200	\$	-	\$ -	\$	243,20
frastructure Costs Per Land Use (Based on De	velopa	ble Acres	)								
Water	\$	-	\$	-	\$	-	\$	-	\$ -		
Amenities	\$	-	\$	-	\$	-	\$	-	\$ -		
Roadway	\$	-	\$	-	\$	-	\$	-	\$ -		
Wastewater	\$	-	\$	-	\$	-	\$	-	\$ -		
Drainage	\$	-	\$	-	\$	-	\$	-	\$ -		
Trails, Landscaping and Parks	\$	-	\$	-	\$	27,326	\$	-	\$ -		
Subtotal per Developable Area for Phase 8		-	\$		\$	27,326	\$	-	\$ -		
Subtotal per Developable Area for Village 1	\$	-	\$	-	\$	122,573	\$	_	\$ -		
Difference			\$	_	\$	(95,247)			\$ _	1	



## **Engineer's Opinion of Costs** Village 1: Phase 8 - Infrastructure Costs (Costs per Land Use Based on PFE Weighted Factor) VMDR VMU VCE VLDR VHDR Total **Number of Units** 0 0 71 0 0 71 Acres 0 0.0 8.9 0 0 8.9 PFE Infrastructure Costs per Land Use for Phase 8 \$ \$ \$ \$ Water \$ \$ \$ \$ \$ Amenities \$ \$ Roadway \$ \$ \$ \$ \$ \$ Wastewater \$ \$ \$ \$ \$ \$ \$ \$ \$ Drainage \$ \$ Trails, Landscaping and Parks \$ \$ \$ \$ \$ \$ Subtotal for Phase 8 \$ \$ \$ \$ \$ PFE Infrastructure Costs per Land Use (Based on Developable Acres) Water \$ \$ \$ \$ Amenities \$ \$ \$ \$ \$ -

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Developable area is from the Specific Plan. EDU per Acre is as follows: VCE 2, VLDR 4, VMDR 8, VHDR 18, VMU 18 Roadway \$

Drainage \$

Wastewater \$

Trails, Landscaping and Parks \$

Subtotal for Phase 8 \$

# Cost Summaries per Phase Consolidated (Phases 1 thru 8)





Engineer's Opinion of Costs

Village 1: Overall Comparison with Phase 1 & 2 - Consolidated

(Costs per Land Use Based on PFE Weighted Factor)

VCE VLDR VMDR VHDR VMU Tota

Village 1 Number of Units 469 2090 728 519 702 450

	VCE	VLDR	VMDR	VHDR	VMU	Total
Village 1 Number of Units	469	2090	728	519	702	4508
Phase 1 & 2 Number of Units	204	916	0	0	0	1120
Total Acres	102	229.1	0	0	0	331.1
Infrastructure Costs per Land Use	\$ 6,645,700	\$ 23,675,100	\$ -	\$ -	\$ -	\$ 30,320,800
(Owner Finance) Cost Per Acre	\$ 65,154	\$ 103,340	-	\$ -	\$ -	
PFE Infrastructure Costs per Land Use	\$ 909,000	\$ 3,265,300	\$ -	\$ -	\$ -	\$ 4,174,300
(Owner Finance) Cost Per Acre	\$ 8,912	\$ 14,253	\$ -	\$ -	\$ -	
Total Financed Construction Costs	\$ 7,554,700	\$ 26,940,400	\$ -	\$ -	\$ -	\$ 34,495,100
(Owner Finance) Cost Per Acre	\$ 74,066	\$ 117,592	\$ -	\$ -	\$ -	
Total Costs for Overall Village 1	15,310,200	55,476,700	14,939,400	\$ 8,835,600	\$ 11,951,100	\$ 106,513,000
Village 1 Total Cost Per Acre	\$ 65,372	\$ 106,176	\$ 164,169	\$ 306,792	\$ 306,438	
PFE Credits from Collected Impact Fees	\$ (909,000)	\$ (3,265,300)	\$ =	\$ -	\$ =	\$ (4,174,300)
PFE Credit Per Acre	\$ (8,912)	\$ (14,253)	\$ =	\$ -	\$ =	
Additional Reimbursement from Village 1 Future Phases	\$ (1,604,757)	\$ (5,667,314)	\$ -	\$ -	\$ -	\$ (7,272,071)
Additional Reimbursement Per Acre	\$ (15,733)	\$ (24,737)	\$ -	\$ -	\$ -	
PFE Credits from Village 1 Collected Impact Fees	\$ (3,735,800)	\$ (14,407,000)	\$ (3,785,300)	\$ (2,422,500)	\$ (3,276,500)	\$ (27,627,100)
Village 1 PFE Credit Per Acre	\$ (15,951)	\$ (27,573)	\$ (41,597)	\$ (84,115)	\$ (84,013)	
Net Cost Phase 1 & 2	\$ 5,040,943	\$ 18,007,786	\$ -	\$ -	\$ -	\$ 23,048,729
Net Cost Per Acre	\$ 49,421	\$ 78,602	\$ -	\$ -	\$ -	
Net Cost for Village 1	\$ 11,574,400	\$ 41,069,700	\$ 11,154,100	\$ 6,413,100	\$ 8,674,600	\$ 78,885,900
Net Cost Per Acre	\$ 49,421	\$ 78,602	\$ 122,573	\$ 222,677	\$ 222,426	



Engineer's Opinion of Costs
Village 1: Overall Comparison with Phase 1 - Consolidated
(Costs per Land Use Based on PFE Weighted Factor)

(OOSIS PET Land OSE Dased On 1 1 L Weighted Factor)									
		VCE	VLDR		VMDR	VHDR		VMU	Total
Village 1 Number of Units		469	2090		728	519		702	4508
Phase 1 Number of Units		28	505		0	0		0	533
Total Acres		13.8	126.3		0	0		0	140.1
Infrastructure Costs per Land Use	\$	1,634,791	\$ 23,110,909	\$	-	\$ -	\$	-	\$ 24,745,700
(Owner Finance) Cost Per Acre	\$	118,463	\$ 182,984	\$	-	\$ -	\$	-	
PFE Infrastructure Costs per Land Use	\$	,	\$ 3,571,730		-	\$ -	\$	-	\$ 3,816,200
(Owner Finance) Cost Per Acre	\$	17,715	\$ 28,280	\$	-	\$ -	\$	-	
Total Financed Construction Costs	\$		\$ 	-	-	\$ -	\$	-	\$ 28,561,900
(Owner Finance) Cost Per Acre	\$	136,178	\$ 211,264	\$	-	\$ -	\$	-	
Total Costs for Overall Village 1	\$	-,,	\$ 55,476,700			\$ 8,835,600		11,951,100	\$ 106,513,000
Village 1 Total Cost Per Acre	\$	65,372	\$ 106,176	\$	164,169	\$ 306,792	\$	306,438	
PFE Credits from Collected Impact Fees	\$	(244,470)	(3,571,730)		-	\$ -	\$	-	\$ (3,816,200)
PFE Credit Per Acre	\$	(17,715)	\$ (28,280)	\$	-	\$ -	\$	-	
Additional Reimbursement from Village 1 Future Phases	\$	(952,781)	\$ (13,183,439)	\$	-	\$ -	\$	-	\$ (14,136,220)
Additional Reimbursement Per Acre	\$	(69,042)	\$ (104,382)	\$	-	\$ -	\$	-	-
PFE Credits from Village 1 Collected Impact Fees	\$	(3,735,800)	\$ (14,407,000)	\$	(3,785,300)	(2,422,500)	\$	(3,276,500)	\$ (27,627,100)
Village 1 PFE Credit Per Acre	\$	(15,951)	\$ (27,573)	\$	(41,597)	\$ (84,115)	\$	(84,013)	
Net Cost for Phase 1	\$	682,010	\$ 9,927,470	\$	-	\$ -	\$	-	\$ 10,609,480
Cost Per Acre	\$	49,421	\$ 78,602	\$	-	\$ -	\$	-	
Net Cost for Village 1	\$	11,574,400	\$ 41,069,700	\$	11,154,100	\$ 6,413,100	\$	8,674,600	\$ 78,885,900
Cost Per Acre	\$	49,421	\$ 78,602	\$		\$ 222,677	\$	222,426	
	-	-				 	•	· · · · · · · · · · · · · · · · · · ·	



Engineer's Opinion of Costs
Village 1: Overall Comparison with Phase 2 - Consolidated
(Costs per Land Use Based on PFE Weighted Factor)

(Costs per Land Use Based on PFE Weighted Factor)									
		VCE		VLDR		VMDR	VHDR	VMU	Total
Village 1 Number of Units	3	469		2090		728	519	702	4508
Phase 2 Number of Units	3	176		411		0	0	0	587
Total Acres	3	88.2		102.8		0	0	0	191
Infrastructure Costs per Land Use	\$	1,962,736	\$	3,612,364	\$	-	\$ <u> </u>	\$ -	\$ 5,575,100
(Owner Finance) Cost Per Acre	\$	22,253	\$	35,140	\$	-	\$ 	\$ -	
PFE Infrastructure Costs per Land Use	\$	,	\$	,		-	\$ -	\$ -	\$ 358,100
(Owner Finance) Cost Per Acre	\$	1,711	\$	2,016	\$	-	\$ -	\$ -	
Total Financed Construction Costs	\$	2,113,611	\$	3,819,589		-	\$ -	\$ -	\$ 5,933,200
(Owner Finance) Cost Per Acre	\$	23,964	\$	37,156	\$	-	\$ -	\$ -	
Total Costs for Overall Village 1	\$	15,310,200	\$	55,476,700		14,939,400	\$ 8,835,600	11,951,100	\$ 106,513,000
Village 1 Total Cost Per Acre	\$	65,372	\$	106,176	\$	164,169	\$ 306,792	\$ 306,438	
PFE Credits from Collected Impact Fees	\$	(150,875)		(207,225)		-	\$ -	\$ -	\$ (358,100)
PFE Credit Per Acre	\$	(1,711)	\$	(2,016)	\$	-	\$ -	\$ -	
Additional Reimbursement paid to Village 1	\$		\$	4,467,953		-	\$ -	\$ -	\$ 6,864,149
Additional Reimbursement Per Acre	\$	27,168	\$	43,463	\$	-	\$ -	\$ -	
PFE Credits from Village 1 Collected Impact Fees	\$	(3,735,800)	_	(14,407,000)		(3,785,300)	(2,422,500)	( , , ,	 (27,627,100)
Village 1 PFE Credit Per Acre	\$	(15,951)	\$	(27,573)	\$	(41,597)	\$ (84,115)	\$ (84,013)	
Net Cost for Phase 2	\$		\$	8,080,316	•	-	\$ -	\$ -	\$ 12,439,249
Cost Per Acre	\$	49,421	\$	78,602	\$	-	\$ -	\$ -	
Net Cost for Village 1	\$	11,574,400	\$	41,069,700	\$	11,154,100	\$ 6,413,100	\$ 8,674,600	\$ 78,885,900
itet oost for vinage i	•	, ,			•		\$ 222,677	, ,	



**Engineer's Opinion of Costs** Village 1: Overall Comparison with Phase 3 - Consolidated (Costs per Land Use Based on PFE Weighted Factor) VCE VLDR **VMDR** VHDR VMU Total 469 Village 1 Number of Units 2090 728 519 702 4508 **Phase 3 Number of Units** 0 562 136 0 196 894 **Total Acres** 140.3 17 168.2 0 0 10.9 2.084,659 \$ 14,997,100 Infrastructure Costs per Land Use 10,638,267 \$ 2,274,175 \$ 75,825 \$ (Owner Finance) Cost Per Acre \$ \$ 122,627 \$ \$ 208.640 PFE Infrastructure Costs per Land Use 5,611,901 \$ 1,039,245 \$ 1,361,854 \$ 8,013,000 (Owner Finance) Cost Per Acre \$ \$ 39,999 \$ 61,132 | \$ \$ 124,941 **Total Financed Construction Costs** 16,250,167 \$ 3,123,904 \$ 3,636,029 | \$ 23,010,100 (Owner Finance) Cost Per Acre \$ \$ 115.824 \$ 183.759 \$ \$ 333.581 Total Costs for Overall Village 1 15,310,200 \$ 55,476,700 \$ 14,939,400 \$ 8,835,600 \$ 11,951,100 \$ 106,513,000 Village 1 Total Cost Per Acre \$ 65,372 \$ 106,176 \$ 164,169 \$ 306,792 \$ 306,438 Potential PFE Reimbursement from Collected Impact Fees<sup>1</sup> \$ (5,611,901) \$ (1,039,245) \$ (1,361,854) \$ (8,013,000)\_ PFE Credit Per Acre \$ (39,999)(61,132) \$ \$ \$ \$ (124,941)Additional Reimbursement paid to Village 1 \$ 389,636 | \$ (926) \$ \$ 150,265 \$ 538,975 Additional Reimbursement Per Acre \$ (54) \$ \$ 2,777 \$ 13,786 PFE Cash Reserve from Collected Impact Fees (3,735,800) \$ (14,407,000) \$ (3,785,300) \$ (2,422,500) \$ (3,276,500) \$ (27,627,100) Village 1 PFE Credit Per Acre \$ (27,573) \$ (41,597) \$ (15.951) \$ (84,115) \$ (84,013)

11,027,902 \$

41,069,700 \$

78,602 \$

78,602 \$

2,083,733 \$

11,154,100 \$

122,573 \$

122,573 \$

2,424,439 \$

8,674,600 \$

222,426

222,426

\$

6,413,100 \$

222,677 \$

15,536,075

78,885,900

11,574,400 \$

49,421 \$

Cost Per Acre \$

Cost Per Acre \$

Developable area is from the Specific Plan. EDU per Acre is as follows: VCE 2, VLDR 4, VMDR 8, VHDR 18, VMU 18 Based on Projected Units

Net Cost for Phase 3

Net Cost for Village 1

\$

<sup>1.</sup> Potential PFE reimbursement from issued building permits if all permits from prior phases have been issued. If not all building permits have been issued, PFE reimbursement may be available in subsequent phases.



**Engineer's Opinion of Costs** Village 1: Overall Comparison with Phase 4 - Consolidated (Costs per Land Use Based on PFE Weighted Factor) VCE VLDR **VMDR** VHDR VMU Total 469 2090 Village 1 Number of Units 728 519 702 4508 **Phase 4 Number of Units** 114 29 187 157 184 671 **Total Acres** 7.3 23.4 8.7 10.2 106.6 57 2,556,797 \$ 1,786,460 \$ Infrastructure Costs per Land Use 2,454,241 \$ 509,917 \$ 2,093,686 \$ 9,401,100 69,852 \$ 43,057 \$ 109,265 \$ 205,340 \$ 205,263 (Owner Finance) Cost Per Acre \$ PFE Infrastructure Costs per Land Use 1,194,156 \$ 212,916 | \$ 1,056,789 \$ 531,147 \$ 622,491 \$ 3,617,500 (Owner Finance) Cost Per Acre \$ 20,950 \$ 29,167 \$ 45,162 \$ 61,051 \$ 61,029 **Total Financed Construction Costs** 3,648,397 \$ 722,833 \$ 3,613,586 \$ 2,317,607 \$ 2,716,177 | \$ 13,018,600 64.007 \$ 99.018 \$ 154.427 \$ 266.392 \$ 266.292 (Owner Finance) Cost Per Acre \$ Total Costs for Overall Village 1 15,310,200 \$ 55,476,700 \$ 14,939,400 \$ 8,835,600 \$ 11,951,100 \$ 106,513,000 Village 1 Total Cost Per Acre \$ 65,372 \$ 106,176 \$ 164,169 \$ 306,792 \$ 306,438 Potential PFE Reimbursement from Collected Impact Fees<sup>1</sup> (1,194,156) \$ (212,916) \$ (1,056,789) \$ (531,147) \$ (622,491) \$ (3,617,500)(61,029)(20,950) \$ (29,167) \$ (61,051) \$ PFE Credit Per Acre (45,162) \$ Additional Reimbursement paid to Village 1 362,757 \$ 63,880 \$ 311,401 \$ 150,831 \$ 175,056 \$ 1.063.924 Additional Reimbursement Per Acre \$ 8,751 \$ 13,308 \$ 6,364 \$ 17,337 17,162 PFE Cash Reserve from Collected Impact Fees (3,735,800) \$ (14,407,000) \$ (3,785,300) \$ (2,422,500) \$ (3,276,500) \$ (27,627,100) (27,573) \$ Village 1 PFE Credit Per Acre \$ (41,597) \$ (15,951) \$ (84,115) \$ (84,013)Net Cost for Phase 4 573,797 | \$ 1,937,291 \$ 2,268,742 \$ 10,465,024 2,816,997 | \$ 2,868,197 | \$ Cost Per Acre \$ 49,421 \$ 78,602 \$ 122,573 \$ 222,677 \$ 222,426 Net Cost for Village 1 11,574,400 \$ 41,069,700 \$ 11,154,100 \$ 6,413,100 | \$ 8,674,600 \$ 78,885,900

49,421 \$

78,602 \$

122,573 \$

222,677 \$

222,426

Cost Per Acre \$

<sup>1.</sup> Potential PFE reimbursement from issued building permits if all permits from prior phases have been issued. If not all building permits have been issued, PFE reimbursement may be available in subsequent phases.



**Engineer's Opinion of Costs** Village 1: Overall Comparison with Phase 5 - Consolidated (Costs per Land Use Based on PFE Weighted Factor) VCE VLDR **VMDR** VHDR VMU Total 469 Village 1 Number of Units 2090 728 519 702 4508 **Phase 5 Number of Units** 40 128 229 362 158 917 **Total Acres** 19.8 32.1 28.6 109.4 20.1 8.8 1,383,186 \$ Infrastructure Costs per Land Use 669,661 \$ 1,786,892 \$ 2,472,888 \$ 3,169,073 | \$ 9,481,700 55,666 \$ (Owner Finance) Cost Per Acre \$ 33,821 \$ 86,465 \$ 157,665 \$ 157,180 PFE Infrastructure Costs per Land Use 145,973 \$ 467,115 | \$ 601,702 \$ 951,162 \$ 415,148 \$ 2,581,100 (Owner Finance) Cost Per Acre \$ 7,372 \$ 14,552 \$ 21,039 \$ 47,321 \$ 47,176 **Total Financed Construction Costs** 815,635 \$ 2,254,006 \$ 3,074,590 \$ 4,120,235 \$ 12,062,800 1,798,334 \$ 41.194 \$ 70.218 \$ 107.503 \$ 204.987 \$ 204.356 (Owner Finance) Cost Per Acre \$ Total Costs for Overall Village 1 15,310,200 \$ 55,476,700 \$ 14,939,400 \$ 8,835,600 \$ 11,951,100 \$ 106,513,000 Village 1 Total Cost Per Acre \$ 65,372 \$ 106,176 \$ 164,169 \$ 306,792 \$ 306,438 Potential PFE Reimbursement from Collected Impact Fees<sup>1</sup> (145,973) \$ (467,115) \$ (601,702) \$ (951,162) \$ (415,148) \$ (2,581,100)(7,372) \$ (14,552) \$ (47,321) \$ PFE Credit Per Acre (21,039) \$ (47, 176)Additional Reimbursement paid to Village 1 308,875 \$ 736,242 \$ 1,032,686 \$ 1,306,737 \$ 574,159 \$ 3.958.699 Additional Reimbursement Per Acre \$ 15,600 \$ 22,936 36,108 | \$ 65,012 | \$ 65,245 PFE Cash Reserve from Collected Impact Fees (3,735,800) \$ (14,407,000) \$ (3,785,300) \$ (2,422,500) \$ (3,276,500) \$ (27,627,100) (27,573) \$ Village 1 PFE Credit Per Acre \$ (41,597) \$ (15,951) \$ (84,115) \$ (84,013)Net Cost for Phase 5 978,536 \$ 2,523,134 \$ 3,505,574 \$ 4,475,809 \$ 13,440,399 1,957,346 \$ Cost Per Acre \$ 49,421 \$ 78,602 \$ 122,573 \$ 222,677 \$ 222,426 Net Cost for Village 1 11,574,400 \$ 41,069,700 \$ 11,154,100 \$ 6,413,100 | \$ 8,674,600 \$ 78,885,900 Cost Per Acre \$ 49,421 \$ 78,602 \$ 122,573 \$ 222,677 \$ 222,426

<sup>1.</sup> Potential PFE reimbursement from issued building permits if all permits from prior phases have been issued. If not all building permits have been issued, PFE reimbursement may be available in subsequent phases.



**Engineer's Opinion of Costs** Village 1: Overall Comparison with Phase 6 - Consolidated (Costs per Land Use Based on PFE Weighted Factor) **VMDR** VCE VLDR VHDR VMU Total 469 Village 1 Number of Units 2090 728 519 702 4508 **Phase 6 Number of Units** 18 455 105 0 164 742 **Total Acres** 9.1 113.7 9.1 145 13.1 0 534,533 \$ 4.298.600 Infrastructure Costs per Land Use 145,117 | \$ 2,939,371 \$ \$ 679,579 \$ 25,852 \$ (Owner Finance) Cost Per Acre \$ 15.947 \$ 40,804 \$ \$ 74,679 PFE Infrastructure Costs per Land Use \$ (Owner Finance) Cost Per Acre \$ \$ \$ \$ **Total Financed Construction Costs** 2,939,371 | \$ 534,533 \$ 4,298,600 145,117 | \$ 679,579 \$ 15.947 \$ 25.852 \$ 40.804 \$ \$ 74.679 (Owner Finance) Cost Per Acre \$ Total Costs for Overall Village 1 15,310,200 \$ 55,476,700 \$ 14,939,400 \$ 8,835,600 \$ 11,951,100 \$ 106,513,000 106,176 \$ Village 1 Total Cost Per Acre \$ 65,372 \$ 164,169 \$ 306,792 \$ 306,438 Potential PFE Reimbursement from Collected Impact Fees<sup>1</sup> \$ \_ \_ PFE Credit Per Acre \$ \$ 1,344,495 \$ Additional Reimbursement paid to Village 1 304,614 \$ 5,997,710 \$ 1,071,167 \$ \$ 8,717,986 Additional Reimbursement Per Acre \$ 33,474 \$ 52,750 81,768 | \$ \$ 147,747 PFE Cash Reserve from Collected Impact Fees (3,735,800) \$ (14,407,000) \$ (3,785,300) \$ (2,422,500) \$ (3,276,500) \$ (27,627,100) (27,573) \$ Village 1 PFE Credit Per Acre \$ (41,597) \$ (15,951) \$ (84,115) \$ (84,013)Net Cost for Phase 6 8,937,081 \$ 1,605,700 \$ 13,016,586 449,731 | \$ 2,024,073 \$ Cost Per Acre \$ 49,421 \$ 78,602 \$ 122,573 \$ \$ 222,426

Cost Per Acre \$

11,574,400 \$

49,421 \$

41,069,700 \$

78,602 \$

11,154,100 \$

122,573 \$

6,413,100 \$

222,677 \$

8,674,600 \$

222,426

78,885,900

Developable area is from the Specific Plan. EDU per Acre is as follows: VCE 2, VLDR 4, VMDR 8, VHDR 18, VMU 18 Based on Projected Units

Net Cost for Village 1

<sup>1.</sup> Potential PFE reimbursement from issued building permits if all permits from prior phases have been issued. If not all building permits have been issued, PFE reimbursement may be available in subsequent phases.



**Engineer's Opinion of Costs** Village 1: Overall Comparison with Phase 7 - Consolidated (Costs per Land Use Based on PFE Weighted Factor) VCE VLDR **VMDR** VHDR VMU Total 469 2090 Village 1 Number of Units 728 519 702 4508 **Phase 7 Number of Units** 93 0 0 0 0 93 **Total Acres** 46.3 0 46.3 0 0 0 10,143,500 Infrastructure Costs per Land Use 10,143,500 \$ \$ \$ \$ \$ (Owner Finance) Cost Per Acre \$ 219,082 \$ \$ PFE Infrastructure Costs per Land Use 9,241,100 \$ 9,241,100 (Owner Finance) Cost Per Acre \$ 199,592 \$ \$ \$ \$ **Total Financed Construction Costs** 19,384,600 \$ 19,384,600 418.674 \$ \$ \$ \$ (Owner Finance) Cost Per Acre \$ Total Costs for Overall Village 1 15,310,200 \$ 55,476,700 \$ 14,939,400 \$ 8,835,600 \$ 11,951,100 \$ 106,513,000 106,176 \$ Village 1 Total Cost Per Acre \$ 65,372 \$ 164,169 \$ 306,792 \$ 306,438 Potential PFE Reimbursement from Collected Impact Fees<sup>1</sup> (9,241,100) \$ \$ \$ (9,241,100)-PFE Credit Per Acre (199,592) \$ \$ \$ \$ Additional Reimbursement from Village 1 (7,855,307) \$ \$ (7,855,307)Additional Reimbursement Per Acre \$ (169,661) \$ \$ PFE Cash Reserve from Collected Impact Fees (3,735,800) \$ (14,407,000) \$ (3,785,300) \$ (2,422,500) \$ (3,276,500) \$ (27,627,100) \$ Village 1 PFE Credit Per Acre \$ (15,951) \$ (41,597) \$ (27,573)(84,115) \$ (84,013)Net Cost for Phase 7 2,288,193 \$ 2,288,193

49,421 \$

49,421 \$

41,069,700 \$

78,602 \$

11,574,400 \$

Cost Per Acre \$

Cost Per Acre \$

Developable area is from the Specific Plan. EDU per Acre is as follows: VCE 2, VLDR 4, VMDR 8, VHDR 18, VMU 18 Based on Projected Units

Net Cost for Village 1

\$

11,154,100 \$

122,573 \$

\$

8,674,600 \$

222,426

78,885,900

6,413,100 \$

222,677 \$

<sup>1.</sup> Potential PFE reimbursement from issued building permits if all permits from prior phases have been issued. If not all building permits have been issued, PFE reimbursement may be available in subsequent phases.



Engineer's Opinion of Costs

Village 1: Overall Comparison with Phase 8 - Consolidated
(Costs per Land Use Based on PFE Weighted Factor)

VCE

Village 1 Number of Units
469

(Costs per Land Ose Based on FFE Weighted Factor)												
		VCE		VLDR		VMDR		VHDR		VMU		Total
Village 1 Number of Units		469		2090		728		519		702		4508
Phase 8 Number of Units		0		0		71		0		0		71
Total Acres		0		0		8.9		0		0		8.9
Infrastructure Costs per Land Use	\$	-	\$	-	\$	243,200	\$	=_	\$	-	\$	243,200
(Owner Finance) Cost Per Acre	\$	-	\$	-	\$	27,326	\$	-	\$	-		
PFE Infrastructure Costs per Land Use	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
(Owner Finance) Cost Per Acre	\$	-	\$	-	\$	-	\$	-	\$	-		
Total Financed Construction Costs	\$	-	\$	-	\$	•	\$	-	\$	-	\$	243,200
(Owner Finance) Cost Per Acre	\$	-	\$		\$	27,326	\$	-	\$	-		
Total Costs for Overall Village 1	\$	15,310,200	\$	55,476,700	\$	14,939,400	\$	8,835,600	\$	11,951,100	\$	106,513,000
Village 1 Total Cost Per Acre	\$	65,372	\$	106,176	\$	164,169	\$	306,792	\$	306,438		
Potential PFE Reimbursement from Collected Impact Fees <sup>1</sup>	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
PFE Credit Per Acre	\$	-	\$	-	\$	-	\$	-	\$	-		
							-		<u> </u>			
Additional Reimbursement paid to Village 1	\$	-	\$	-	\$	847,695	\$	-	\$	-	\$	847,695
Additional Reimbursement Per Acre		-	\$	-	\$		\$	-	\$	-	•	,
					Ė	,			<u> </u>			
PFE Cash Reserve from Collected Impact Fees	\$	(3,735,800)	\$	(14,407,000)	\$	(3,785,300)	\$	(2,422,500)	\$	(3,276,500)	\$	(27,627,100)
Village 1 PFE Credit Per Acre		(15,951)		(27,573)		(41,597)		(84,115)		(84,013)		( ,= .: ,: /
		( -,, -,	Ť	( ,== =)	Ť	( ,===)	_	(= , = )	Ť	(= ,= = )		
Net Cost for Phase 8	\$	-	\$	-	\$	1,090,895	\$	-	\$	-	\$	1,090,895
Cost Per Acre		-	\$	_	\$	, ,	\$	-	\$	_	T	.,,
000110171010			Ψ		, <del>,</del>	,	Ψ		Ψ			
Net Cost for Village 1	\$	11,574,400	\$	41,069,700	\$	11,154,100	\$	6,413,100	\$	8,674,600	\$	78,885,900
Cost Per Acre		49,421	\$	78,602	\$		\$	222,677	\$	222,426	<u> </u>	. 3,000,000
9051 01 A010	Ψ	10,721	Ψ	.0,002	Ψ	,010	Ψ	,011	Ψ	<i></i> ,¬∠0		

<sup>1.</sup> Potential PFE reimbursement from issued building permits if all permits from prior phases have been issued. If not all building permits have been issued, PFE reimbursement may be available in subsequent phases.

# APPENDIX 13 Lincoln Village 1 Specific Plan Infrastructure Finance Plan Water PFE Costs





# Engineer's Opinion of Costs Village 1 - Backbone Water PFE Credit Summary

Item #	Description	Unit	Quantity	Unit Price	Amount
Wate	r System				
1	12" Water Line	LF	0	\$70	\$0
2	16" Water Line	LF	0	\$85	\$0
3	18" Water Line	LF	7,145	\$100	\$714,500
4	16" Water Line (Required Improvement)	LF	7,145	-\$85	-\$607,300
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	\$0
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	\$0
7	24" Water Line	LF	200	\$150	\$30,000
8	16" Water Line (Required Improvement)	LF	200	-\$85	-\$17,000
9	30" Water Line	LF	2,840	\$175	\$497,100
10	16" Water Line (Required Improvement)	LF	2,840	-\$85	-\$241,500
11	12" Water Valve	EA	0	\$3,000	\$0
12	16" Water Valve	EA	0	\$6,500	\$0
13	18" Water Valve	EA	15	\$8,500	\$127,500
14	16" Water Valve (Required Improvement)	EA	15	-\$6,500	-\$97,500
15	24" Water Valve	EA	0	\$30,000	\$0
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0
17	30" Water Valve	EA	3	\$35,000	\$105,000
18	16" Water Valve (Required Improvement)	EA	5	-\$6,500	-\$32,500
19	Pressure Reducing Valve	EA	0	\$75,000	\$0
20	Air Release Valve	EA	0	\$3,000	\$0
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$0
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$0
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	\$0
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	\$0
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$0 \$0
26	Transmission Main Tank Connection	LS	0	\$22,000	\$0
27	Transmission Main Connection	LS	0	\$10,000	\$0
	Construction Total:		•	·	\$478,300

Contingency Based upon Hard Costs (15/): \$71,800 Soft Costs Contingency (17/): \$81,300

TOTAL WATER SYSTEM \$631,400

<sup>\*</sup> Assumes that water will be completed in conjunction with the sewer bore and jack.

<sup>\*\*</sup>Including restrained joints and brackets



Engineer's Opinion of Costs Village 1 - Backbone Water PFE Credit Phase 1 Summary

Item #	Description	Unit	Quantity	Unit Price	Amount
Water	System				
	_				
1	12" Water Line	LF	0	\$70	\$(
2	16" Water Line	LF	0	\$85	\$0
3	18" Water Line	LF	7,145	\$100	\$714,500
4	16" Water Line (Required Improvement)	LF	7,145	-\$85	-\$607,300
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	\$0
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	\$0
7	24" Water Line	LF	200	\$150	\$30,000
8	16" Water Line (Required Improvement)	LF	200	-\$85	-\$17,000
9	30" Water Line	LF	1,710	\$175	\$299,300
10	16" Water Line (Required Improvement)	LF	1,710	-\$85	-\$145,400
11	12" Water Valve	EA	0	\$3,000	\$0
12	16" Water Valve	EA	0	\$6,500	\$0
13	18" Water Valve	EA	15	\$8,500	\$127,500
14	16" Water Valve (Required Improvement)	EA	15	-\$6,500	-\$97,500
15	24" Water Valve	EA	0	\$30,000	\$0
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0
17	30" Water Valve	EA	2	\$35,000	\$70,000
18	16" Water Valve (Required Improvement)	EA	3	-\$6,500	-\$19,500
19	Pressure Reducing Valve	EA	0	\$75,000	\$0
20	Air Release Valve	EA	0	\$3,000	\$0
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$0
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$0
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	\$0
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	\$0
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$0 \$0
26	Transmission Main Tank Connection	LS	0	\$22,000	\$0
27	Transmission Main Connection	LS	0	\$10,000	\$0
	Construction Total:				\$354,600

Contingency Based upon Hard Costs (15/): \$53,200

**TOTAL WATER SYSTEM** 

Soft Costs Contingency (17/): \$60,300

\$468,100

\* Assumes that water will be completed in conjunction with the sewer bore and jack.

<sup>\*\*</sup>Including restrained joints and brackets



PFE Credit Phase 1 Oak Tree Lane 5 (V1W2)

Item #	Description	Unit	Quantity	Unit Price	Amount
Water	System				
	-				
1	12" Water Line	LF	0	\$70	\$0
2	16" Water Line	LF	0	\$85	\$0
3	18" Water Line	LF	0	\$100	\$0
4	16" Water Line (Required Improvement)	LF	0	-\$85	\$0
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	\$0
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	\$0
7	24" Water Line	LF	0	\$150	\$0
8	16" Water Line (Required Improvement)	LF	0	-\$85	\$0
9	30" Water Line	LF	500	\$175	\$87,500
10	16" Water Line (Required Improvement)	LF	500	-\$85	-\$42,500
11	12" Water Valve	EA	0	\$3,000	\$0
12	16" Water Valve	EA	0	\$6,500	\$0
13	18" Water Valve	EA	0	\$8,500	\$0
14	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0
15	24" Water Valve	EA	0	\$30,000	\$0
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0
17	30" Water Valve	EA	1	\$35,000	\$35,000
18	16" Water Valve (Required Improvement)	EA	1	-\$6,500	-\$6,500
19	Pressure Reducing Valve	EA	0	\$75,000	\$0
20	Air Release Valve	EA	0	\$3,000	\$0
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$0
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$0
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	\$0
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	\$0
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$0
26	Transmission Main Tank Connection	LS	0	\$22,000	\$0
27	Transmission Main Connection	LS	0	\$10,000	\$0
	Construction Total:				\$73,500

Contingency Based upon Hard Costs (15/): \$11,000

Soft Costs Contingency (17/): \$12,500

TOTAL WATER SYSTEM \$97,000

<sup>\*</sup> Assumes that water will be completed in conjunction with the sewer bore and jack.

<sup>\*\*</sup>Including restrained joints and brackets



PFE Credit Phase 1 Oak Tree Lane 7 (V1W2)

Item #	Description	Unit	Quantity	Unit Price	Amount
Water	System				
	-				
1	12" Water Line	LF	0	\$70	\$0
2	16" Water Line	LF	0	\$85	\$0
3	18" Water Line	LF	0	\$100	\$0
4	16" Water Line (Required Improvement)	LF	0	-\$85	\$0
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	\$0
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	\$0
7	24" Water Line	LF	0	\$150	\$0
8	16" Water Line (Required Improvement)	LF	0	-\$85	\$0
9	30" Water Line	LF	210	\$175	\$36,800
10	16" Water Line (Required Improvement)	LF	210	-\$85	-\$17,900
11	12" Water Valve	EA	0	\$3,000	\$0
12	16" Water Valve	EA	0	\$6,500	\$0
13	18" Water Valve	EA	0	\$8,500	\$0
14	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0
15	24" Water Valve	EA	0	\$30,000	\$0
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0
17	30" Water Valve	EA	0	\$35,000	\$0
18	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0
19	Pressure Reducing Valve	EA	0	\$75,000	\$0
20	Air Release Valve	EA	0	\$3,000	\$0
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$0
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$0
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	\$0
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	\$0
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$0
26	Transmission Main Tank Connection	LS	0	\$22,000	\$0
27	Transmission Main Connection	LS	0	\$10,000	\$0
	Construction Total:				\$18,900

Contingency Based upon Hard Costs (15/): \$2,800

Soft Costs Contingency (17/): \$3,200

TOTAL WATER SYSTEM \$24,900

<sup>\*</sup> Assumes that water will be completed in conjunction with the sewer bore and jack.

<sup>\*\*</sup>Including restrained joints and brackets



PFE Credit Phase 1 Oak Tree Lane 8 (V1W3)

Item #	Description	Unit	Quantity	Unit Price	Amount
Water \$	System				
1	12" Water Line	LF	0	\$70	\$
2	16" Water Line	LF	0	\$85	\$
3	18" Water Line	LF	0	\$100	\$
4	16" Water Line (Required Improvement)	LF	0	-\$85	\$
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	\$
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	\$
7	24" Water Line	LF	0	\$150	¢
8	16" Water Line (Required Improvement)	LF	0	-\$85	\$
9	30" Water Line	LF	1,000	\$175	\$175,00
10	16" Water Line (Required Improvement)	LF	1,000	-\$85	-\$85,00
11	12" Water Valve	EA	0	\$3,000	Ç
12	16" Water Valve	EA	0	\$6,500	Ç
13	18" Water Valve	EA	0	\$8,500	(
14	16" Water Valve (Required Improvement)	EA	0	-\$6,500	(
15	24" Water Valve	EA	0	\$30,000	(
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	(
17	30" Water Valve	EA	1	\$35,000	\$35,00
18	16" Water Valve (Required Improvement)	EA	2	-\$6,500	-\$13,00
19	Pressure Reducing Valve	EA	0	\$75,000	(
20	Air Release Valve	EA	0	\$3,000	(
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	(
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	(
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	Ç
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	
25	Demolish and Remove Existing 20" Water	LF	0	\$20	
26	Transmission Main Tank Connection	LS	0	\$22,000	(
27	Transmission Main Connection	LS	0	\$10,000	
	Construction Total:				\$112,00

Contingency Based upon Hard Costs (15/): \$16,900

Soft Costs Contingency (17/): \$19,100

TOTAL WATER SYSTEM \$148,000

<sup>\*</sup> Assumes that water will be completed in conjunction with the sewer bore and jack.

<sup>\*\*</sup>Including restrained joints and brackets



PFE Credit Phase 1 Oak Tree Lane 9 (V1W4-5)

Item #	Description	Unit	Quantity	Unit Price	Amount		
Water	System						
	-						
1	12" Water Line	LF	0	\$70	\$0		
2	16" Water Line	LF	0	\$85	\$0		
3	18" Water Line	LF	2,660	\$100	\$266,000		
4	16" Water Line (Required Improvement)	LF	2,660	-\$85	-\$226,100		
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	\$0		
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	\$0		
7	24" Water Line	LF	200	\$150	\$30,000		
8	16" Water Line (Required Improvement)	LF	200	-\$85	-\$17,000		
9	30" Water Line	LF	0	\$175	\$0		
10	16" Water Line (Required Improvement)	LF	0	-\$85	\$0		
11	12" Water Valve	EA	0	\$3,000	\$0		
12	16" Water Valve	EA	0	\$6,500	\$0		
13	18" Water Valve	EA	5	\$8,500	\$42,500		
14	16" Water Valve (Required Improvement)	EA	5	-\$6,500	-\$32,500		
15	24" Water Valve	EA	0	\$30,000	\$0		
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0		
17	30" Water Valve	EA	0	\$35,000	\$0		
18	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0		
19	Pressure Reducing Valve	EA	0	\$75,000	\$0		
20	Air Release Valve	EA	0	\$3,000	\$0		
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$0		
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$0		
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	\$0		
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	\$0		
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$0		
26	Transmission Main Tank Connection	LS	0	\$22,000	\$0		
27	Transmission Main Connection	LS	0	\$10,000	\$0		
	Construction Total: \$6						

Contingency Based upon Hard Costs (15/): \$9,400

Soft Costs Contingency (17/): \$10,700

TOTAL WATER SYSTEM \$83,000

<sup>\*</sup> Assumes that water will be completed in conjunction with the sewer bore and jack.

<sup>\*\*</sup>Including restrained joints and brackets



PFE Credit Phase 1 State Route 193 1 (V1W10)

Item #	Description Description	Unit	Quantity	Unit Price	Amount
Water S	System				
1	12" Water Line	LF	0	\$70	\$0
2	16" Water Line	LF	0	\$85	\$0
3	18" Water Line	LF	830	\$100	\$83,000
4	16" Water Line (Required Improvement)	LF	830	-\$85	-\$70,500
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	\$0
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	\$0
7	24" Water Line	LF	0	\$150	\$0
8	16" Water Line (Required Improvement)	LF	0	-\$85	\$0
9	30" Water Line	LF	0	\$175	\$0
10	16" Water Line (Required Improvement)	LF	0	-\$85	\$0
11	12" Water Valve	EA	0	\$3,000	\$0
12	16" Water Valve	EA	0	\$6,500	\$0
13	18" Water Valve	EA	2	\$8,500	\$17,000
14	16" Water Valve (Required Improvement)	EA	2	-\$6,500	-\$13,000
15	24" Water Valve	EA	0	\$30,000	\$0
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0
17	30" Water Valve	EA	0	\$35,000	\$0
18	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0
19	Pressure Reducing Valve	EA	0	\$75,000	\$0
20	Air Release Valve	EA	0	\$3,000	\$0
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$0
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$0
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	\$0
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	\$0
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$0
26	Transmission Main Tank Connection	LS	0	\$22,000	\$0
27	Transmission Main Connection	LS	0	\$10,000	\$0
	Construction Total:				\$16,500

Contingency Based upon Hard Costs (15/): \$2,500

Soft Costs Contingency (17/): \$2,800

TOTAL WATER SYSTEM \$21,800

<sup>\*</sup> Assumes that water will be completed in conjunction with the sewer bore and jack.

<sup>\*\*</sup>Including restrained joints and brackets



PFE Credit Phase 1 State Route 193 2 (V1W10)

Item #	Description	Unit	Quantity	Unit Price	Amount
Water	System				
1	12" Water Line	LF	0	\$70	\$0
2	16" Water Line	LF	0	\$85	\$0
3	18" Water Line	LF	1,340	\$100	\$134,000
4	16" Water Line (Required Improvement)	LF	1,340	-\$85	-\$113,900
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	\$0
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	\$0
7	24" Water Line	LF	0	\$150	\$0
8	16" Water Line (Required Improvement)	LF	0	-\$85	\$0
9	30" Water Line	LF	0	\$175	\$0
10	16" Water Line (Required Improvement)	LF	0	-\$85	\$0
11	12" Water Valve	EA	0	\$3,000	\$0
12	16" Water Valve	EA	0	\$6,500	\$0
13	18" Water Valve	EA	3	\$8,500	\$25,500
14	16" Water Valve (Required Improvement)	EA	3	-\$6,500	-\$19,500
15	24" Water Valve	EA	0	\$30,000	\$0
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0
17	30" Water Valve	EA	0	\$35,000	\$0
18	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0
19	Pressure Reducing Valve	EA	0	\$75,000	\$0
20	Air Release Valve	EA	0	\$3,000	\$0
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$0
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$0
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	\$0
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	\$0
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$0
26	Transmission Main Tank Connection	LS	0	\$22,000	\$0
27	Transmission Main Connection	LS	0	\$10,000	\$0
	Construction Total:				\$26,100

Contingency Based upon Hard Costs (15/): \$3,900

Soft Costs Contingency (17/): \$4,400

TOTAL WATER SYSTEM \$34,400

<sup>\*</sup> Assumes that water will be completed in conjunction with the sewer bore and jack.

<sup>\*\*</sup>Including restrained joints and brackets



PFE Credit Phase 1 State Route 193 3 (V1W10)

Item #	Description	Unit	Quantity	Unit Price	Amount		
Water	System						
1	12" Water Line	LF	0	\$70	\$0		
2	16" Water Line	LF	0	\$85	\$0		
3	18" Water Line	LF	1,975	\$100	\$197,500		
4	16" Water Line (Required Improvement)	LF	1,975	-\$85	-\$167,900		
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	\$0		
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	\$0		
7	24" Water Line	LF	0	\$150	\$0		
8	16" Water Line (Required Improvement)	LF	0	-\$85	\$0		
9	30" Water Line	LF	0	\$175	\$0		
10	16" Water Line (Required Improvement)	LF	0	-\$85	\$0		
11	12" Water Valve	EA	0	\$3,000	\$0		
12	16" Water Valve	EA	0	\$6,500	\$0		
13	18" Water Valve	EA	4	\$8,500	\$34,000		
14	16" Water Valve (Required Improvement)	EA	4	-\$6,500	-\$26,000		
15	24" Water Valve	EA	0	\$30,000	\$0		
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0		
17	30" Water Valve	EA	0	\$35,000	\$0		
18	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0		
19	Pressure Reducing Valve	EA	0	\$75,000	\$0		
20	Air Release Valve	EA	0	\$3,000	\$0		
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$0		
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$0		
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	\$0		
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	\$0		
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$0		
26	Transmission Main Tank Connection	LS	0	\$22,000	\$0		
27	Transmission Main Connection	LS	0	\$10,000	\$0		
	Construction Total: \$3						

Contingency Based upon Hard Costs (15/): \$5,600

Soft Costs Contingency (17/): \$6,400

TOTAL WATER SYSTEM \$49,600

<sup>\*</sup> Assumes that water will be completed in conjunction with the sewer bore and jack.

<sup>\*\*</sup>Including restrained joints and brackets



## Village 1 - Backbone Water

PFE Credit Phase 1 State Route 193 4 (V1W10)

Item #	Description	Unit	Quantity	Unit Price	Amount
Water \$	System				
1	12" Water Line	LF	0	\$70	\$(
2	16" Water Line	LF	0	\$85	\$(
3	18" Water Line	LF	340	\$100	\$34,000
4	16" Water Line (Required Improvement)	LF	340	-\$85	-\$28,900
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	\$(
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	\$(
7	24" Water Line	LF	0	\$150	\$(
8	16" Water Line (Required Improvement)	LF	0	-\$85	\$(
9	30" Water Line	LF	0	\$175	\$(
10	16" Water Line (Required Improvement)	LF	0	-\$85	\$(
11	12" Water Valve	EA	0	\$3,000	\$(
12	16" Water Valve	EA	0	\$6,500	\$(
13	18" Water Valve	EA	1	\$8,500	\$8,500
14	16" Water Valve (Required Improvement)	EA	1	-\$6,500	-\$6,50
15	24" Water Valve	EA	0	\$30,000	\$
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$(
17	30" Water Valve	EA	0	\$35,000	\$(
18	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$(
19	Pressure Reducing Valve	EA	0	\$75,000	\$(
20	Air Release Valve	EA	0	\$3,000	\$(
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$(
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$(
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	\$(
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	\$(
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$(
26	Transmission Main Tank Connection	LS	0	\$22,000	\$(
27	Transmission Main Connection	LS	0	\$10,000	\$(
	Construction Total:				\$7,100

Contingency Based upon Hard Costs (15/): \$1,100

Soft Costs Contingency (17/): \$1,200

TOTAL WATER SYSTEM \$9,400

<sup>\*</sup> Assumes that water will be completed in conjunction with the sewer bore and jack.

<sup>\*\*</sup>Including restrained joints and brackets



Engineer's Opinion of Costs Village 1 - Backbone Water PFE Credit Phase 2 Summary

Item #	Description	Unit	Quantity	Unit Price	Amount
Water	System				
	-				
1	12" Water Line	LF	0	\$70	\$0
2	16" Water Line	LF	0	\$85	\$0
3	18" Water Line	LF	0	\$100	\$0
4	16" Water Line (Required Improvement)	LF	0	-\$85	\$0
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	\$0 \$0
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	\$0
7	24" Water Line	LF	0	\$150	\$0
8	16" Water Line (Required Improvement)	LF	0	-\$85	\$0
9	30" Water Line	LF	1,130	\$175	\$197,800
10	16" Water Line (Required Improvement)	LF	1,130	-\$85	-\$96,100
11	12" Water Valve	EA	0	\$3,000	\$0
12	16" Water Valve	EA	0	\$6,500	\$0
13	18" Water Valve	EA	0	\$8,500	\$0
14	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0
15	24" Water Valve	EA	0	\$30,000	\$0
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0
17	30" Water Valve	EA	1	\$35,000	\$35,000
18	16" Water Valve (Required Improvement)	EA	2	-\$6,500	-\$13,000
19	Pressure Reducing Valve	EA	0	\$75,000	\$0
20	Air Release Valve	EA	0	\$3,000	\$0
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$0
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$0
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	\$0
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	\$0
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$0 \$0
26	Transmission Main Tank Connection	LS	0	\$22,000	\$0
27	Transmission Main Connection	LS	0	\$10,000	\$0
•	Construction Total:				\$123,700

Contingency Based upon Hard Costs (15/): \$18,600 Soft Costs Contingency (17/): \$21,000

TOTAL WATER SYSTEM \$163,300

<sup>\*</sup> Assumes that water will be completed in conjunction with the sewer bore and jack.

<sup>\*\*</sup>Including restrained joints and brackets



PFE Credit Phase 2 Oak Tree Lane 4 (V1W2)

Item #	Description	Unit	Quantity	Unit Price	Amount		
Water	System						
	-						
1	12" Water Line	LF	0	\$70	\$0		
2	16" Water Line	LF	0	\$85	\$0		
3	18" Water Line	LF	0	\$100	\$0		
4	16" Water Line (Required Improvement)	LF	0	-\$85	\$0		
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	\$0		
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	\$0		
7	24" Water Line	LF	0	\$150	\$0		
8	16" Water Line (Required Improvement)	LF	0	-\$85	\$0		
9	30" Water Line	LF	1,130	\$175	\$197,800		
10	16" Water Line (Required Improvement)	LF	1,130	-\$85	-\$96,100		
11	12" Water Valve	EA	0	\$3,000	\$0		
12	16" Water Valve	EA	0	\$6,500	\$0		
13	18" Water Valve	EA	0	\$8,500	\$0		
14	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0		
15	24" Water Valve	EA	0	\$30,000	\$0		
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0		
17	30" Water Valve	EA	1	\$35,000	\$35,000		
18	16" Water Valve (Required Improvement)	EA	2	-\$6,500	-\$13,000		
19	Pressure Reducing Valve	EA	0	\$75,000	\$0		
20	Air Release Valve	EA	0	\$3,000	\$0		
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$0		
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$0		
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	\$0		
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	\$0		
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$0		
26	Transmission Main Tank Connection	LS	0	\$22,000	\$0		
27	Transmission Main Connection	LS	0	\$10,000	\$0		
	Construction Total: \$1						

Contingency Based upon Hard Costs (15/): \$18,600

Soft Costs Contingency (17/): \$21,000

TOTAL WATER SYSTEM \$163,300

<sup>\*</sup> Assumes that water will be completed in conjunction with the sewer bore and jack.

<sup>\*\*</sup>Including restrained joints and brackets



PFE Summary

Item #	Description	Unit	Quantity	Unit Price	Amount
Wate	r System				
1	12" Water Line	LF	0	\$70	\$0
2	16" Water Line	LF	0	\$85	\$0
3	18" Water Line	LF	1,400	\$100	\$140,000
4	16" Water Line (Required Improvement)	LF	1,400	-\$85	-\$119,000
5	24" Water Line across Auburn Ravine Bridge *	LF	550	\$200	\$110,000
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	550	-\$135	-\$74,300
7	24" Water Line	LF	5,020	\$150	\$753,100
8	16" Water Line (Required Improvement)	LF	5,020	-\$85	-\$426,700
9	30" Water Line	LF	2,940	\$175	\$514,600
10	16" Water Line (Required Improvement)	LF	2,940	-\$85	-\$250,000
11	12" Water Valve	EA	0	\$3,000	\$0
12	16" Water Valve	EA	0	\$6,500	\$0
13	18" Water Valve	EA	3	\$8,500	\$25,500
14	16" Water Valve (Required Improvement)	EA	3	-\$6,500	-\$19,500
15	24" Water Valve	EA	5	\$30,000	\$150,000
16	16" Water Valve (Required Improvement)	EA	10	-\$6,500	-\$65,000
17	30" Water Valve	EA	3	\$35,000	\$105,000
18	16" Water Valve (Required Improvement)	EA	6	-\$6,500	-\$39,000
19	Pressure Reducing Valve	EA	0	\$75,000	\$0
20	Air Release Valve	EA	0	\$3,000	\$0
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$0
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$0
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	2	\$50,000	\$100,000
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	2	-\$34,000	-\$68,000
25	Demolish and Remove Existing 20" Water	LF	2	\$20	\$0
26	Transmission Main Tank Connection	LS	0	\$22,000	\$0
27	Transmission Main Connection	LS	0	\$10,000	\$0
ш.	Construction Total:		•		\$836,700

Contingency Based upon Hard Costs (15/): \$125,400 Soft Costs Contingency (17/): \$142,200

TOTAL WATER SYSTEM \$1,104,300

<sup>\*</sup> Assumes that water will be completed in conjunction with the sewer bore and jack.

<sup>\*\*</sup>Including restrained joints and brackets



Engineer's Opinion of Costs Village 1 - Backbone Water PFE Phase 3 Summary

Item #	Description	Unit	Quantity	Unit Price	Amount		
Water	System						
1	12" Water Line	LF	0	\$70	\$0		
2	16" Water Line	LF	0	\$85	\$0		
3	18" Water Line	LF	0	\$100	\$0		
4	16" Water Line (Required Improvement)	LF	0	-\$85	\$0		
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	\$0		
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	\$0		
7	24" Water Line	LF	4,055	\$150	\$608,300		
8	16" Water Line (Required Improvement)	LF	4,055	-\$85	-\$344,700		
9	30" Water Line	LF	1,130	\$175	\$197,800		
10	16" Water Line (Required Improvement)	LF	1,130	-\$85	-\$96,100		
11	12" Water Valve	EA	0	\$3,000	\$0		
12	16" Water Valve	EA	0	\$6,500	\$0		
13	18" Water Valve	EA	0	\$8,500	\$0		
14	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0		
15	24" Water Valve	EA	4	\$30,000	\$120,000		
16	16" Water Valve (Required Improvement)	EA	8	-\$6,500	-\$52,000		
17	30" Water Valve	EA	1	\$35,000	\$35,000		
18	16" Water Valve (Required Improvement)	EA	2	-\$6,500	-\$13,000		
19	Pressure Reducing Valve	EA	0	\$75,000	\$0		
20	Air Release Valve	EA	0	\$3,000	\$0		
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$0		
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$0		
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	\$0		
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	\$0		
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$0		
26	Transmission Main Tank Connection	LS	0	\$22,000	\$0		
27	Transmission Main Connection	LS	0	\$10,000	\$0		
	Construction Total: \$45						

Contingency Based upon Hard Costs (15/): \$68,300

Soft Costs Contingency (17/): \$77,400

TOTAL WATER SYSTEM \$601,000

<sup>\*</sup> Assumes that water will be completed in conjunction with the sewer bore and jack.

<sup>\*\*</sup>Including restrained joints and brackets



PFE Phase 3 Oak Tree Lane 3 (V1W2)

Item #	Description	Unit	Quantity	Unit Price	Amount
Water	System				
1	12" Water Line	LF	0	\$70	\$(
2	16" Water Line	LF	0	\$85	\$(
3	18" Water Line	LF	0	\$100	\$(
4	16" Water Line (Required Improvement)	LF	0	-\$85	\$(
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	\$(
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	\$(
7	24" Water Line	LF	0	\$150	\$(
8	16" Water Line (Required Improvement)	LF	0	-\$85	\$(
9	30" Water Line	LF	1,130	\$175	\$197,800
10	16" Water Line (Required Improvement)	LF	1,130	-\$85	-\$96,100
11	12" Water Valve	EA	0	\$3,000	\$(
12	16" Water Valve	EA	0	\$6,500	\$(
13	18" Water Valve	EA	0	\$8,500	\$(
14	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$(
15	24" Water Valve	EA	0	\$30,000	\$(
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$(
17	30" Water Valve	EA	1	\$35,000	\$35,000
18	16" Water Valve (Required Improvement)	EA	2	-\$6,500	-\$13,000
19	Pressure Reducing Valve	EA	0	\$75,000	\$(
20	Air Release Valve	EA	0	\$3,000	\$(
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$(
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$(
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	\$(
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	\$(
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$(
26	Transmission Main Tank Connection	LS	0	\$22,000	\$(
27	Transmission Main Connection	LS	0	\$10,000	\$(
	Construction Total:				\$123,700

Contingency Based upon Hard Costs (15/): \$18,600

Soft Costs Contingency (17/): \$21,000

TOTAL WATER SYSTEM \$163,300

<sup>\*</sup> Assumes that water will be completed in conjunction with the sewer bore and jack.

<sup>\*\*</sup>Including restrained joints and brackets



PFE Phase 3 Oak Tree Lane 10 (V1W6)

Item #	Description	Unit	Quantity	Unit Price	Amount		
Water	System						
1	12" Water Line	LF	0	\$70	\$0		
2	16" Water Line	LF	0	\$85	\$0		
3	18" Water Line	LF	0	\$100	\$0		
4	16" Water Line (Required Improvement)	LF	0	-\$85	\$0		
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	\$0		
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	\$0		
7	24" Water Line	LF	3,090	\$150	\$463,500		
8	16" Water Line (Required Improvement)	LF	3,090	-\$85	-\$262,700		
9	30" Water Line	LF	0	\$175	\$0		
10	16" Water Line (Required Improvement)	LF	0	-\$85	\$0		
11	12" Water Valve	EA	0	\$3,000	\$0		
12	16" Water Valve	EA	0	\$6,500	\$0		
13	18" Water Valve	EA	0	\$8,500	\$0		
14	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0		
15	24" Water Valve	EA	3	\$30,000	\$90,000		
16	16" Water Valve (Required Improvement)	EA	6	-\$6,500	-\$39,000		
17	30" Water Valve	EA	0	\$35,000	\$0		
18	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0		
19	Pressure Reducing Valve	EA	0	\$75,000	\$0		
20	Air Release Valve	EA	0	\$3,000	\$0		
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$0		
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$0		
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	\$0		
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	\$0		
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$0		
26	Transmission Main Tank Connection	LS	0	\$22,000	\$0		
27	Transmission Main Connection	LS	0	\$10,000	\$0		
•	Construction Total: \$25						

Contingency Based upon Hard Costs (15/): \$37,700

Soft Costs Contingency (17/): \$42,800

TOTAL WATER SYSTEM \$332,300

<sup>\*</sup> Assumes that water will be completed in conjunction with the sewer bore and jack.

<sup>\*\*</sup>Including restrained joints and brackets



PFE Phase 3 Oak Tree Lane 11 (V1W7)

Item #	Description	Unit	Quantity	Unit Price	Amount
Water	System				
1	12" Water Line	LF	0	\$70	\$(
2	16" Water Line	LF	0	\$85	\$(
3	18" Water Line	LF	0	\$100	\$(
4	16" Water Line (Required Improvement)	LF	0	-\$85	\$(
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	\$(
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	\$(
7	24" Water Line	LF	965	\$150	\$144,800
8	16" Water Line (Required Improvement)	LF	965	-\$85	-\$82,000
9	30" Water Line	LF	0	\$175	\$(
10	16" Water Line (Required Improvement)	LF	0	-\$85	\$(
11	12" Water Valve	EA	0	\$3,000	\$(
12	16" Water Valve	EA	0	\$6,500	\$(
13	18" Water Valve	EA	0	\$8,500	\$(
14	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$(
15	24" Water Valve	EA	1	\$30,000	\$30,000
16	16" Water Valve (Required Improvement)	EA	2	-\$6,500	-\$13,000
17	30" Water Valve	EA	0	\$35,000	\$(
18	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$(
19	Pressure Reducing Valve	EA	0	\$75,000	\$(
20	Air Release Valve	EA	0	\$3,000	\$(
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$(
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$(
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	\$(
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	\$(
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$(
26	Transmission Main Tank Connection	LS	0	\$22,000	\$(
27	Transmission Main Connection	LS	0	\$10,000	\$(
	Construction Total:				\$79,800

Contingency Based upon Hard Costs (15/): \$12,000

Soft Costs Contingency (17/): \$13,600

TOTAL WATER SYSTEM \$105,400

<sup>\*</sup> Assumes that water will be completed in conjunction with the sewer bore and jack.

<sup>\*\*</sup>Including restrained joints and brackets



Engineer's Opinion of Costs Village 1 - Backbone Water PFE Phase 4 Summary

Item #	Description	Unit	Quantity	Unit Price	Amount
Water	System				
	-				
1	12" Water Line	LF	0	\$70	\$0
2	16" Water Line	LF	0	\$85	\$0
3	18" Water Line	LF	0	\$100	\$0
4	16" Water Line (Required Improvement)	LF	0	-\$85	\$0
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	\$0
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	\$0
7	24" Water Line	LF	0	\$150	\$0
8	16" Water Line (Required Improvement)	LF	0	-\$85	\$0
9	30" Water Line	LF	1,810	\$175	\$316,800
10	16" Water Line (Required Improvement)	LF	1,810	-\$85	-\$153,900
11	12" Water Valve	EA	0	\$3,000	\$0
12	16" Water Valve	EA	0	\$6,500	\$0
13	18" Water Valve	EA	0	\$8,500	\$0
14	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0
15	24" Water Valve	EA	0	\$30,000	\$0
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0
17	30" Water Valve	EA	2	\$35,000	\$70,000
18	16" Water Valve (Required Improvement)	EA	4	-\$6,500	-\$26,000
19	Pressure Reducing Valve	EA	0	\$75,000	\$0
20	Air Release Valve	EA	0	\$3,000	\$0
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$0
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$0
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	\$0
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	\$0
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$0
26	Transmission Main Tank Connection	LS	0	\$22,000	\$0
27	Transmission Main Connection	LS	0	\$10,000	\$0
	Construction Total:				\$206,900

Contingency Based upon Hard Costs (15/): \$31,000

Soft Costs Contingency (17/): \$35,200

TOTAL WATER SYSTEM \$273,100

<sup>\*</sup> Assumes that water will be completed in conjunction with the sewer bore and jack.

<sup>\*\*</sup>Including restrained joints and brackets



PFE Phase 4 Oak Tree Lane to Water Tank 2 (V1W1)

Item #	Description Description	Unit	Quantity	Unit Price	Amount			
Water	System							
1	12" Water Line	LF	0	\$70	\$0			
2	16" Water Line	LF	0	\$85	\$0			
3	18" Water Line	LF	0	\$100	\$0			
4	16" Water Line (Required Improvement)	LF	0	-\$85	\$0			
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	\$0			
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	\$0			
7	24" Water Line	LF	0	\$150	\$0			
8	16" Water Line (Required Improvement)	LF	0	-\$85	\$0			
9	30" Water Line	LF	1,810	\$175	\$316,800			
10	16" Water Line (Required Improvement)	LF	1,810	-\$85	-\$153,900			
11	12" Water Valve	EA	0	\$3,000	\$0			
12	16" Water Valve	EA	0	\$6,500	\$0			
13	18" Water Valve	EA	0	\$8,500	\$0			
14	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0			
15	24" Water Valve	EA	0	\$30,000	\$0			
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0			
17	30" Water Valve	EA	2	\$35,000	\$70,000			
18	16" Water Valve (Required Improvement)	EA	4	-\$6,500	-\$26,000			
19	Pressure Reducing Valve	EA	0	\$75,000	\$0			
20	Air Release Valve	EA	0	\$3,000	\$0			
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$0			
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$0			
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	\$0			
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	\$0			
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$0			
26	Transmission Main Tank Connection	LS	0	\$22,000	\$0			
27	Transmission Main Connection	LS	0	\$10,000	\$0			
	Construction Total: \$206,							

Contingency Based upon Hard Costs (15/): \$31,000

Soft Costs Contingency (17/): \$35,200

TOTAL WATER SYSTEM \$273,100

<sup>\*</sup> Assumes that water will be completed in conjunction with the sewer bore and jack.

<sup>\*\*</sup>Including restrained joints and brackets



Engineer's Opinion of Costs Village 1 - Backbone Water PFE Phase 7 Summary

Item #	Description	Unit	Quantity	Unit Price	Amount
Water	System				
1	12" Water Line	LF	0	\$70	\$0
2	16" Water Line	LF	0	\$85	\$0
3	18" Water Line	LF	1,400	\$100	\$140,000
4	16" Water Line (Required Improvement)	LF	1,400	-\$85	-\$119,000
5	24" Water Line across Auburn Ravine Bridge *	LF	550	\$200	\$110,000
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	550	-\$135	-\$74,300
7	24" Water Line	LF	965	\$150	\$144,800
8	16" Water Line (Required Improvement)	LF	965	-\$85	-\$82,000
9	30" Water Line	LF	0	\$175	\$0
10	16" Water Line (Required Improvement)	LF	0	-\$85	\$0
11	12" Water Valve	EA	0	\$3,000	\$0
12	16" Water Valve	EA	0	\$6,500	\$0
13	18" Water Valve	EA	3	\$8,500	\$25,500
14	16" Water Valve (Required Improvement)	EA	3	-\$6,500	-\$19,500
15	24" Water Valve	EA	1	\$30,000	\$30,000
16	16" Water Valve (Required Improvement)	EA	2	-\$6,500	-\$13,000
17	30" Water Valve	EA	0	\$35,000	\$0
18	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0
19	Pressure Reducing Valve	EA	0	\$75,000	\$0
20	Air Release Valve	EA	0	\$3,000	\$0
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$0
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$0
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	2	\$50,000	\$100,000
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	2	-\$34,000	-\$68,000
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$0
26	Transmission Main Tank Connection	LS	0	\$22,000	\$0
27	Transmission Main Connection	LS	0	\$10,000	\$0
	Construction Total:				\$174,500

Contingency Based upon Hard Costs (15/): \$26,200

Soft Costs Contingency (17/): \$29,700

TOTAL WATER SYSTEM \$230,400

<sup>\*</sup> Assumes that water will be completed in conjunction with the sewer bore and jack.

<sup>\*\*</sup>Including restrained joints and brackets



PFE Phase 7 Oak Tree Lane 12 (V1W8)

Item #	Description	Unit	Quantity	Unit Price	Amount
Water	System				
1	12" Water Line	LF	0	\$70	\$(
2	16" Water Line	LF	0	\$85	\$0
3	18" Water Line	LF	0	\$100	\$0
4	16" Water Line (Required Improvement)	LF	0	-\$85	\$0
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	\$0
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	\$0
7	24" Water Line	LF	140	\$150	\$21,000
8	16" Water Line (Required Improvement)	LF	140	-\$85	-\$11,900
9	30" Water Line	LF	0	\$175	\$0
10	16" Water Line (Required Improvement)	LF	0	-\$85	\$0
11	12" Water Valve	EA	0	\$3,000	\$0
12	16" Water Valve	EA	0	\$6,500	\$0
13	18" Water Valve	EA	0	\$8,500	\$0
14	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0 \$0
15	24" Water Valve	EA	0	\$30,000	\$0
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0
17	30" Water Valve	EA	0	\$35,000	\$0
18	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0
19	Pressure Reducing Valve	EA	0	\$75,000	\$0
20	Air Release Valve	EA	0	\$3,000	\$0 \$0
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$0
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$0
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	\$0
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	\$(
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$( \$(
26	Transmission Main Tank Connection	LS	0	\$22,000	\$0
27	Transmission Main Connection	LS	0	\$10,000	\$(
•	Construction Total:				\$9,100

Contingency Based upon Hard Costs (15/): \$1,400

Soft Costs Contingency (17/): \$1,500

TOTAL WATER SYSTEM \$12,000

<sup>\*</sup> Assumes that water will be completed in conjunction with the sewer bore and jack.

<sup>\*\*</sup>Including restrained joints and brackets



PFE Phase 7 Oak Tree Lane 13 (V1W8)

Item #	Description Description	Unit	Quantity	Unit Price	Amount			
Water	System							
1	12" Water Line	LF	0	\$70	\$0			
2	16" Water Line	LF	0	\$85	\$0			
3	18" Water Line	LF	0	\$100	\$0			
4	16" Water Line (Required Improvement)	LF	0	-\$85	\$0			
5	24" Water Line across Auburn Ravine Bridge *	LF	550	\$200	\$110,000			
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	550	-\$135	-\$74,300			
7	24" Water Line	LF	825	\$150	\$123,800			
8	16" Water Line (Required Improvement)	LF	825	-\$85	-\$70,100			
9	30" Water Line	LF	0	\$175	\$0			
10	16" Water Line (Required Improvement)	LF	0	-\$85	\$0			
11	12" Water Valve	EA	0	\$3,000	\$0			
12	16" Water Valve	EA	0	\$6,500	\$0			
13	18" Water Valve	EA	0	\$8,500	\$0			
14	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0			
15	24" Water Valve	EA	1	\$30,000	\$30,000			
16	16" Water Valve (Required Improvement)	EA	2	-\$6,500	-\$13,000			
17	30" Water Valve	EA	0	\$35,000	\$0			
18	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0			
19	Pressure Reducing Valve	EA	0	\$75,000	\$0			
20	Air Release Valve	EA	0	\$3,000	\$0			
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$0			
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$0			
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	2	\$50,000	\$100,000			
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	2	-\$34,000	-\$68,000			
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$0			
26	Transmission Main Tank Connection	LS	0	\$22,000	\$0			
27	Transmission Main Connection	LS	0	\$10,000	\$0			
•	Construction Total: \$138							

Contingency Based upon Hard Costs (15/): \$20,700

Soft Costs Contingency (17/): \$23,600

TOTAL WATER SYSTEM \$182,700

<sup>\*</sup> Assumes that water will be completed in conjunction with the sewer bore and jack.

<sup>\*\*</sup>Including restrained joints and brackets



PFE Phase 7 Virginiatown Road 1 (V1W9)

Item #	Description	Unit	Quantity	Unit Price	Amount			
Water	System							
1	12" Water Line	LF	0	\$70	\$0			
2	16" Water Line	LF	0	\$85	\$0			
3	18" Water Line	LF	800	\$100	\$80,000			
4	16" Water Line (Required Improvement)	LF	800	-\$85	-\$68,000			
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	\$0			
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	\$0			
7	24" Water Line	LF	0	\$150	\$0			
8	16" Water Line (Required Improvement)	LF	0	-\$85	\$0 \$0			
9	30" Water Line	LF	0	\$175	\$0			
10	16" Water Line (Required Improvement)	LF	0	-\$85	\$0			
11	12" Water Valve	EA	0	\$3,000	\$0			
12	16" Water Valve	EA	0	\$6,500	\$0			
13	18" Water Valve	EA	2	\$8,500	\$17,000			
14	16" Water Valve (Required Improvement)	EA	2	-\$6,500	-\$13,000			
15	24" Water Valve	EA	0	\$30,000	\$0			
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0			
17	30" Water Valve	EA	0	\$35,000	\$0			
18	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0			
19	Pressure Reducing Valve	EA	0	\$75,000	\$0			
20	Air Release Valve	EA	0	\$3,000	\$0			
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$0 \$0			
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$0			
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	\$0			
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	\$0			
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$0			
26	Transmission Main Tank Connection	LS	0	\$22,000	\$0			
27	Transmission Main Connection	LS	0	\$10,000	\$0			
	Construction Total: \$16,							

Contingency Based upon Hard Costs (15/): \$2,400

Soft Costs Contingency (17/): \$2,700

TOTAL WATER SYSTEM \$21,100

<sup>\*</sup> Assumes that water will be completed in conjunction with the sewer bore and jack.

<sup>\*\*</sup>Including restrained joints and brackets



PFE Phase 7 Virginiatown Road 2 (V1W9)

ltem #	Description	Unit	Quantity	Unit Price	Amount
Water S	System				
1	12" Water Line	LF	0	\$70	\$
2	16" Water Line	LF	0	\$85	\$(
3	18" Water Line	LF	600	\$100	\$60,000
4	16" Water Line (Required Improvement)	LF	600	-\$85	-\$51,000
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	\$(
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	\$(
7	24" Water Line	LF	0	\$150	\$
8	16" Water Line (Required Improvement)	LF	0	-\$85	\$(
9	30" Water Line	LF	0	\$175	\$
10	16" Water Line (Required Improvement)	LF	0	-\$85	\$
11	12" Water Valve	EA	0	\$3,000	\$
12	16" Water Valve	EA	0	\$6,500	\$(
13	18" Water Valve	EA	1	\$8,500	\$8,50
14	16" Water Valve (Required Improvement)	EA	1	-\$6,500	-\$6,50
15	24" Water Valve	EA	0	\$30,000	\$
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$
17	30" Water Valve	EA	0	\$35,000	\$
18	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$
19	Pressure Reducing Valve	EA	0	\$75,000	\$
20	Air Release Valve	EA	0	\$3,000	\$
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	\$(
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	\$
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$
26	Transmission Main Tank Connection	LS	0	\$22,000	\$
27	Transmission Main Connection	LS	0	\$10,000	\$
L	Construction Total:				\$11,00

Contingency Based upon Hard Costs (15/): \$1,700

Soft Costs Contingency (17/): \$1,900

TOTAL WATER SYSTEM \$14,600

<sup>\*</sup> Assumes that water will be completed in conjunction with the sewer bore and jack.

<sup>\*\*</sup>Including restrained joints and brackets

## APPENDIX 14 Lincoln Village 1 Specific Plan Infrastructure Finance Plan Drainage PFE Costs





## **Engineer's Opinion of Costs** Village 1 - Drainage

**PFE Summary** 

11 Trunk 6 12 18" Culv 13 24" Culv 14 36" Culv 15 Headwa 16 Drainag 17 Drainag 18 Grassy 19 Stormw 20 Outfall Culvert 21 new Lat Culvert 22 Oak Tre 23 NID Box Culvert 24 Collector Culvert 25 Ingram Wetlanc 26 Overcro	Description	Unit	Quantity	Unit Price	Amount
Village 1           1         12" SD           2         15" SD           3         18" SD           4         24" SD           5         30" SD           6         36" SD           7         42" SD           8         48" SD           9         60" SD           10         Standar           11         Trunk 6           12         18" Culv           13         24" Culv           14         36" Culv           15         Headwar           16         Drainag           17         Drainag           18         Grassy           19         Stormw           20         Outfall           Culvert         Culvert           21         new Lal           Culvert         Culvert           23         NID Box           Culvert         Culvert           24         Collectc           Culvert         Culvert           25         Ingram           Wetlanc         Overcro           CLOMR         Ferrari I           26         Overcro					
1 12" SD 2 15" SD 3 18" SD 4 24" SD 5 30" SD 6 36" SD 7 42" SD 8 48" SD 9 60" SD 10 Standar 11 Trunk 6 12 18" Culv 13 24" Culv 14 36" Culv 15 Headwa 16 Drainag 17 Drainag 18 Grassy 19 Stormw 20 Outfall Culvert 21 new Lak Culvert 22 Oak Tre 23 NID Box Culvert 24 Collectc Culvert 25 Ingram Wetlanc 26 Overcro CLOMR 27 Ferrari I 28 Retrofit	System				
2 15" SD 3 18" SD 4 24" SD 5 30" SD 6 36" SD 7 42" SD 8 48" SD 9 60" SD 10 Standar 11 Trunk 6 12 18" Culv 13 24" Culv 14 36" Culv 15 Headwa 16 Drainag 17 Drainag 18 Grassy 19 Stormw 20 Outfall Culvert 21 new Lak Culvert 22 Oak Tre 23 NID Box Culvert 24 Collectc Culvert 25 Ingram Wetlanc 26 Overcro CLOMR 27 Ferrari I 28 Retrofit					
3 18" SD 4 24" SD 5 30" SD 6 36" SD 7 42" SD 8 48" SD 9 60" SD 10 Standar 11 Trunk 6 12 18" Culv 13 24" Culv 14 36" Culv 15 Headwa 16 Drainag 17 Drainag 18 Grassy 19 Stormw 20 Outfall Culvert 21 new Lak Culvert 22 Oak Tre 23 NID Box Culvert 24 Collectc Culvert 25 Ingram Wetlanc 26 Overcro CLOMR 27 Ferrari I 28 Retrofit	SD Line	LF	0	\$50	\$0
4 24" SD 5 30" SD 6 36" SD 7 42" SD 8 48" SD 9 60" SD 10 Standar 11 Trunk 6 12 18" Culv 13 24" Culv 14 36" Culv 15 Headwa 16 Drainag 17 Drainag 18 Grassy 19 Stormw 20 Outfall Culvert 21 new Laf Culvert 22 Oak Tre 23 NID Box Culvert 24 Collecto Culvert 25 Ingram Wetlanc 26 Overcro CLOMR 27 Ferrari I 28 Retrofit	SD Line	LF	0	\$60	\$0
5 30" SD 6 36" SD 7 42" SD 8 48" SD 9 60" SD 10 Standar 11 Trunk 6 12 18" Culv 13 24" Culv 14 36" Culv 15 Headwa 16 Drainag 17 Drainag 18 Grassy 19 Stormw 20 Outfall Culvert 21 new Laf Culvert 22 Oak Tre 23 NID Box Culvert 24 Collector Culvert 19 Wetland Culvert 26 Overcro CLOMR 27 Ferrari I 28 Retrofit	SD Line	LF	0	\$75	\$0
6 36" SD 7 42" SD 8 48" SD 9 60" SD 10 Standar 11 Trunk 6 12 18" Culv 13 24" Culv 14 36" Culv 15 Headwa 16 Drainag 17 Drainag 18 Grassy 19 Stormw 20 Outfall Culvert 21 new Lal Culvert 22 Oak Tre 23 NID Box Culvert 24 Collector Culvert 25 Ingram Wetland 26 Overcro CLOMR 27 Ferrari I 28 Retrofit	SD Line	LF	0	\$85	\$0
7 42" SD 8 48" SD 9 60" SD 10 Standar 11 Trunk 6 12 18" Culv 13 24" Culv 14 36" Culv 15 Headwa 16 Drainag 17 Drainag 18 Grassy 19 Stormw 20 Outfall Culvert 21 new Lal Culvert 22 Oak Tre 23 NID Box Culvert 24 Collector Culvert 25 Ingram Wetland 26 Overcro CLOMR 27 Ferrari I 28 Retrofit	SD Line	LF	0	\$110	\$0
8 48" SD 9 60" SD 10 Standar 11 Trunk 6 12 18" Culv 13 24" Culv 14 36" Culv 15 Headwa 16 Drainag 17 Drainag 18 Grassy 19 Stormw 20 Outfall Culvert 21 new Lal Culvert 22 Oak Tre 23 NID Box Culvert 24 Collector Culvert 15 Culvert 16 Culvert 27 Ferrari I 28 Retrofit	SD Line	LF	0	\$125	\$0
9 60" SD 10 Standar 11 Trunk 6 12 18" Culv 13 24" Culv 14 36" Culv 15 Headwa 16 Drainag 17 Drainag 18 Grassy 19 Stormw 20 Outfall Culvert 21 new Lak Culvert 22 Oak Tre 23 NID Box Culvert 24 Collector Culvert 25 Ingram Wetlanc 26 Overcro CLOMR 27 Ferrari I 28 Retrofit	SD Line	LF	0	\$150	\$0
10 Standar  11 Trunk 6  12 18" Culv  13 24" Culv  14 36" Culv  15 Headwa  16 Drainag  17 Drainag  18 Grassy  19 Stormw  20 Outfall  Culvert  21 new Lat  Culvert  22 Oak Tre  23 NID Box  Culvert  24 Collector  Culvert  25 Ingram  Wetland  26 Overcro  CLOMR  27 Ferrari I  28 Retrofit	SD Line	LF	0	\$180	\$0
11 Trunk 6 12 18" Culv 13 24" Culv 14 36" Culv 15 Headwa 16 Drainag 17 Drainag 18 Grassy 19 Stormw 20 Outfall Culvert 21 new Lak Culvert 22 Oak Tre 23 NID Box Culvert 24 Collectc Culvert 25 Ingram Wetland 26 Overcro CLOMR 27 Ferrari I 28 Retrofit	SD Line	LF	0	\$190	\$0
12 18" Culv 13 24" Culv 14 36" Culv 15 Headwa 16 Drainag 17 Drainag 18 Grassy 19 Stormw 20 Outfall Culvert 21 new Lal Culvert 22 Oak Tre 23 NID Box Culvert 24 Collecte Culvert 25 Ingram Wetland 26 Overcro CLOMR 27 Ferrari I 28 Retrofit	dard 48" SDMH (MH/400')	EA	0	\$4,250	\$0
13 24" Culv 14 36" Culv 15 Headwa 16 Drainag 17 Drainag 18 Grassy 19 Stormw 20 Outfall Culvert 21 new Lak Culvert 22 Oak Tre 23 NID Box Culvert 24 Collectc Culvert 25 Ingram Wetland 26 Overcro CLOMR 27 Ferrari I 28 Retrofit	k 60" SDMH (MH/400')	EA	0	\$8,500	\$0
14 36" Culv 15 Headwa 16 Drainag 17 Drainag 18 Grassy 19 Stormw 20 Outfall Culvert 21 new Lal Culvert 22 Oak Tre 23 NID Box Culvert 24 Collectc Culvert 25 Ingram Wetland 26 Overcro CLOMR 27 Ferrari I 28 Retrofit	Culvert Extension	LF	0	\$125	\$0
15 Headwa 16 Drainag 17 Drainag 18 Grassy 19 Stormw 20 Outfall 21 new Lal 22 Oak Tre 23 NID Box Culvert 24 Collectc Culvert 25 Ingram Wetlanc 26 Overcro CLOMR 27 Ferrari I 28 Retrofit	Culvert Extension	LF	0	\$150	\$0
16 Drainag 17 Drainag 18 Grassy 19 Stormw 20 Outfall 21 new Lak 22 Oak Tre 23 NID Box Culvert 24 Collecte 25 Ingram Wetlanc 26 Overcre 27 Ferrari I 28 Retrofit	Culvert Extension	LF	0	\$225	\$0
17 Drainag 18 Grassy 19 Stormw 20 Outfall Culvert 21 new Lak Culvert 22 Oak Tre 23 NID Box Culvert 24 Collecto Culvert 1 Ingram Wetland 26 Overcro CLOMR 27 Ferrari I 28 Retrofit	dwall Retrofit	EA	0	\$12,500	\$0
18         Grassy           19         Stormw           20         Outfall           Culvert         Culvert           22         Oak Tre           23         NID Box           Culvert         Culvert           24         Collector           Culvert         Ingram           Wetland         Wetland           26         Overcrost           CLOMR         Ferrari I           28         Retrofit	nage Inlet	EA	0	\$2,650	\$0
19 Stormw 20 Outfall Culvert 21 new Lab Culvert 22 Oak Tre 23 NID Box Culvert 24 Collecto Culvert 25 Ingram Wetland 26 Overcro CLOMR 27 Ferrari I 28 Retrofit	nage Inlet and Retrofit Pipe	EA	0	\$5,000	\$0
20 Outfall Culvert 21 new Lak Culvert 22 Oak Tre 23 NID Box Culvert 24 Collecto Culvert 25 Ingram Wetland 26 Overcro CLOMR 27 Ferrari I 28 Retrofit	sy Swale	EA	0	\$5,000	\$0
Culvert	nwater Quality Basin	EA	0	\$25,000	\$0
21         new Lak           Culvert         Culvert           22         Oak Tre           23         NID Box           Culvert         Collector           Culvert         Culvert           1 Ingram         Wetland           26         Overcrost           CLOMR         Ferrari I           28         Retrofit	all	LS	0	\$9,000	\$0
22 Culvert 22 Oak Tre 23 NID Box Culvert 24 Collecto Culvert 1 Ingram Wetland 26 Overcro CLOMR 27 Ferrari I 28 Retrofit	ert - 12'x5' Arch Culvert - Oak Tree near	EA	0		
22         Oak Tree           23         NID Box           Culvert         Culvert           24         Collector           Culvert         Ingram           Wetland         Wetland           26         Overcro           CLOMR         27           Ferrari I         28           Retrofit         Retrofit		EA	U	\$450,000	\$90,000
23 NID Box Culvert 24 Collector Culvert 25 Ingram Wetland 26 Overcro CLOMR 27 Ferrari I 28 Retrofit	ert - 12'x5' Arch Culvert and 48" Culvert -	EA	0	4-4-	**
24 Culvert Collecto Culvert Lingram Wetland 26 Overcro CLOMR 27 Ferrari I 28 Retrofit	Tree near Regional Park *			\$525,000	\$0
24         Collector           25         Culvert           1 Ingram         Wetland           26         Overcro           CLOMR         27           Ferrari         28           Retrofit	Box Culvert Expansion ert - 12'x5.5' Arch Culvert - North South	EA	0	\$75,000	\$0
25 Culvert Ingram Wetland 26 Overcro CLOMR 27 Ferrari I 28 Retrofit	ector near State Route 193	EA	0	\$400,000	\$0
26 Vetland 26 Overcro CLOMR 27 Ferrari I 28 Retrofit	ert - 30" Culvert - Oak Tree Lane and South		_	ψ 100,000	Ψ.
26         Overcro           CLOMR         27           Ferrari I         28           Retrofit         28	am Slough East of No. So. Collector	EA	0	\$100,000	\$0
CLOMR 27 Ferrari I 28 Retrofit	and Mitigation - Oak Tree Lane	EA	0		
27 Ferrari I 28 Retrofit	crossing **	LA	U	\$300,000	\$0
28 Retrofit	MR and LOMR - Auburn Ravine next to	JOB	0	¢80 000	¢c
	ari Ranch Road  ofit Lake outlet and berm***	EA	1	\$80,000 \$1,000,000	\$0,000,000 \$1,000,000
		CY	0	\$1,000,000	\$1,000,000
	urn Ravine Bank Stabilization	SF	0	\$4 \$1	\$(
	urn Ravine Barik Stabilization	SF SF	0	\$1 \$0	\$C
	urn Ravine nydroseed urn Ravine Armoring	SF SF	0	\$0 \$15	\$(
	urn Ravine Armoning urn Ravine Tree Planting	EA	0	\$15 \$100	\$( \$(
33 Auburn	Construction Total:	EA	1 0	\$100	\$1,090,000

<sup>\*</sup> Includes traffic control and demolition of existing culverts.

Contingency Based upon Hard Costs (15/): \$163,500 \$185,300

\*\* Estimated costs, actual cost will be developed in conjunction with environmental consultant.

Soft Costs Contingency (17/):

**TOTAL DRAINAGE** \$1,438,800

\*\*\* Further consultation will be required with geotechnical and environmental consultants to determine actual cost to retrofit lake outfall, berm and wetland permit.



Village 1 - Drainage

PFE Phase 3 Summary

PFE Phase 3 Summary						
Item #	Description	Unit	Quantity	Unit Price	Amount	
Storm D	rainage System					
Village 1						
1	12" SD Line	LF	0	\$50	\$0	
2	15" SD Line	LF	0	\$60	\$0	
3	18" SD Line	LF	0	\$75	\$0	
4	24" SD Line	LF	0	\$85	\$0	
5	30" SD Line	LF	0	\$110	\$0	
6	36" SD Line	LF	0	\$125	\$0	
7	42" SD Line	LF	0	\$150	\$0	
8	48" SD Line	LF	0	\$180	\$0	
9	60" SD Line	LF	0	\$190	\$0	
10	Standard 48" SDMH (MH/400')	EA	0	\$4,250	\$0	
11	Trunk 60" SDMH (MH/400')	EA	0	\$8,500	\$0	
12	18" Culvert Extension	LF	0	\$125	\$0	
13	24" Culvert Extension	LF	0	\$150	\$0	
14	36" Culvert Extension	LF	0	\$225	\$0	
15	Headwall Retrofit	EA	0	\$12,500	\$0	
16	Drainage Inlet	EA	0	\$2,650	\$0	
17	Drainage Inlet and Retrofit Pipe	EA	0	\$5,000	\$0	
18	Grassy Swale	EA	0	\$5,000	\$0	
19	Stormwater Quality Basin	EA	0	\$25,000	\$0	
20	Outfall	LS	0	\$9,000	\$0	
21	Culvert - 12'x5' Arch Culvert - Oak Tree near new Lake	EA	0	\$450,000	\$90,000	
22	Culvert - 12'x5' Arch Culvert and 48" Culvert - Oak Tree near Regional Park *	EA	0	\$525,000	\$0	
23	NID Box Culvert Expansion	EA	0	\$75,000	\$0	
24	Culvert - 12'x5.5' Arch Culvert - North South Collector near State Route 193	EA	0	\$400,000	\$0	
25	Culvert - 30" Culvert - Oak Tree Lane and South Ingram Slough East of No. So. Collector	EA	0	\$100,000	\$0	
26	Wetland Mitigation - Oak Tree Lane Overcrossing **	EA	0	\$300,000	\$0	
27	CLOMR and LOMR - Auburn Ravine next to Ferrari Ranch Road	JOB	0	\$80,000	\$0	
28	Retrofit Lake outlet and berm***	EA	0	\$1,000,000	\$0	
29	Grading	CY	0	\$4	\$0	
30	Auburn Ravine Bank Stabilization	SF	0	\$1	\$0	
31	Auburn Ravine Hydroseed	SF	0	\$0	\$0	
32	Auburn Ravine Armoring	SF	0	\$15	\$0	
33	Auburn Ravine Tree Planting	EA	0	\$100	\$0	
	Construction Total:				\$90,000	

<sup>\*</sup> Includes traffic control and demolition of existing culverts.

\*\* Estimated costs, actual cost will be developed in conjunction

\*\* Soft Costs Contingency (17/): \$15,300

TOTAL DRAINAGE \$118,800

<sup>\*\*</sup> Estimated costs, actual cost will be developed in conjunction with environmental consultant.

<sup>\*\*\*</sup> Further consultation will be required with geotechnical and environmental consultants to determine actual cost to retrofit lake outfall, berm and wetland permit.



Village 1 - Drainage

Phase 3 Oak Tree Lane 7 (V1R8)

Item #	Oak Tree Lane 7 (V1R8)  Description	Unit	Quantity	Unit Price	Amount
iteili #	Description	Offic	Quantity	Office	Amount
Storm	Drainage System				
Village 1			1	4=0	40
1	12" SD Line	LF	0	\$50	\$0
2	15" SD Line	LF · -	0	\$60	\$0
3	18" SD Line	LF	0	\$75	\$0
4	24" SD Line	LF	0	\$85	\$0
5	30" SD Line	LF	0	\$110	\$0
6	36" SD Line	LF	0	\$125	\$0
7	42" SD Line	LF	0	\$150	\$0
8	48" SD Line	LF	0	\$180	\$0
9	60" SD Line	LF	0	\$190	\$0
10	Standard 48" SDMH (MH/400')	EA	0	\$4,250	\$0
11	Trunk 60" SDMH (MH/400')	EA	0	\$8,500	\$0
12	18" Culvert Extension	LF	0	\$125	\$0
13	24" Culvert Extension	LF	0	\$150	\$0
14	36" Culvert Extension	LF	0	\$225	\$0
15	Headwall Retrofit	EA	0	\$12,500	\$0
16	Drainage Inlet	EA	0	\$2,650	\$0
17	Drainage Inlet and Retrofit Pipe	EA	0	\$5,000	\$0
18	Grassy Swale	EA	0	\$5,000	\$0
19	Stormwater Quality Basin	EA	0	\$25,000	\$0
20	Outfall	LS	0	\$9,000	\$0
21	Culvert - 12'x5' Arch Culvert - Oak Tree near new Lake	EA	0.2	\$450,000	\$90,000
22	Culvert - 12'x5' Arch Culvert and 48" Culvert - Oak Tree near Regional Park *	EA	0	\$525,000	\$0
23	NID Box Culvert Expansion	EA	0	\$75,000	\$0
24	Culvert - 12'x5.5' Arch Culvert - North South Collector near State Route 193	EA	0	\$400,000	\$0
25	Culvert - 30" Culvert - Oak Tree Lane and South Ingram Slough East of No. So. Collector	EA	0	\$100,000	\$0
26	Wetland Mitigation - Oak Tree Lane Overcrossing **	EA	0	\$300,000	\$0
27	CLOMR and LOMR - Auburn Ravine next to Ferrari Ranch Road	JOB	0	\$80,000	\$0
28	Retrofit Lake outlet and berm***	EA	0	\$1,000,000	\$0
29	Grading	CY	0	\$4	\$0
30	Auburn Ravine Bank Stabilization	SF	0	\$1	\$0
31	Auburn Ravine Hydroseed	SF	0	\$0	\$0
32	Auburn Ravine Armoring	SF	0	\$15	\$0
33	Auburn Ravine Tree Planting	EA	0	\$100	\$0
	Construction Total:				\$90,000

<sup>\*</sup> Includes traffic control and demolition of existing culverts.

\*\* Estimated costs, actual cost will be developed in conjunction

\*\* Soft Costs Contingency (17/): \$15,300

TOTAL DRAINAGE \$118,800

<sup>\*\*</sup> Estimated costs, actual cost will be developed in conjunction with environmental consultant.

<sup>\*\*\*</sup> Further consultation will be required with geotechnical and environmental consultants to determine actual cost to retrofit lake outfall, berm and wetland permit.



Village 1 - Drainage

PFE Phase 4 Summary

PFE Phase 4 Summary							
Item #	Description	Unit	Quantity	Unit Price	Amount		
Storm D	Prainage System						
Village 1							
1	12" SD Line	LF	0	\$50	\$0		
2	15" SD Line	LF	0	\$60	\$0		
3	18" SD Line	LF	0	\$75	\$0		
4	24" SD Line	LF	0	\$85	\$0		
5	30" SD Line	LF	0	\$110	\$0		
6	36" SD Line	LF	0	\$125	\$0		
7	42" SD Line	LF	0	\$150	\$0		
8	48" SD Line	LF	0	\$180	\$0		
9	60" SD Line	LF	0	\$190	\$0		
10	Standard 48" SDMH (MH/400')	EA	0	\$4,250	\$0		
11	Trunk 60" SDMH (MH/400')	EA	0	\$8,500	\$0		
12	18" Culvert Extension	LF	0	\$125	\$0		
13	24" Culvert Extension	LF	0	\$150	\$0		
14	36" Culvert Extension	LF	0	\$225	\$0		
15	Headwall Retrofit	EA	0	\$12,500	\$0		
16	Drainage Inlet	EA	0	\$2,650	\$0		
17	Drainage Inlet and Retrofit Pipe	EA	0	\$5,000	\$0		
18	Grassy Swale	EA	0	\$5,000	\$0		
19	Stormwater Quality Basin	EA	0	\$25,000	\$0		
20	Outfall	LS	0	\$9,000	\$0		
21	Culvert - 12'x5' Arch Culvert - Oak Tree near new Lake	EA	0	\$450,000	\$0		
22	Culvert - 12'x5' Arch Culvert and 48" Culvert - Oak Tree near Regional Park *	EA	0	\$525,000	\$0		
23	NID Box Culvert Expansion	EA	0	\$75,000	\$0		
24	Culvert - 12'x5.5' Arch Culvert - North South Collector near State Route 193	EA	0	\$400,000	\$0		
25	Culvert - 30" Culvert - Oak Tree Lane and South Ingram Slough East of No. So. Collector	EA	0	\$100,000	\$0		
26	Wetland Mitigation - Oak Tree Lane Overcrossing **	EA	0	\$300,000	\$0		
27	CLOMR and LOMR - Auburn Ravine next to Ferrari Ranch Road	JOB	0	\$80,000	\$0		
28	Retrofit Lake outlet and berm***	EA	1	\$1,000,000	\$1,000,000		
29	Grading	CY	0	\$4	\$0		
30	Auburn Ravine Bank Stabilization	SF	0	\$1	\$0		
31	Auburn Ravine Hydroseed	SF	0	\$0	\$0		
32	Auburn Ravine Armoring	SF	0	\$15	\$0		
33	Auburn Ravine Tree Planting	EA	0	\$100	\$0		
	Construction Total:				\$1,000,000		

<sup>\*</sup> Includes traffic control and demolition of existing culverts.

Contingency Based upon Hard Costs (15/): \$150,000

\*\* Estimated costs, actual cost will be developed in conjunction with environmental consultant.

Soft Costs Contingency (17/): \$170,000

<sup>\*\*\*</sup> Further consultation will be required with geotechnical and environmental consultants to determine actual cost to retrofit lake outfall, berm and wetland permit.



Village 1 - Drainage

PFE Phase 4 Drainage Basin (V1D1)

Item #	Description	Unit	Quantity	Unit Price	Amount
Storm	Drainage System				
Village 1					
1	12" SD Line	LF	0	\$50	\$0
2	15" SD Line	LF	0	\$60	\$0
3	18" SD Line	LF	0	\$75	\$0
4	24" SD Line	LF	0	\$85	\$0
5	30" SD Line	LF	0	\$110	\$0
6	36" SD Line	LF	0	\$125	\$0
7	42" SD Line	LF	0	\$150	\$0
8	48" SD Line	LF	0	\$180	\$0
9	60" SD Line	LF	0	\$190	\$0
10	Standard 48" SDMH (MH/400')	EA	0	\$4,250	\$0
11	Trunk 60" SDMH (MH/400')	EA	0	\$8,500	\$0
12	18" Culvert Extension	LF	0	\$125	\$0
13	24" Culvert Extension	LF	0	\$150	\$0
14	36" Culvert Extension	LF	0	\$225	\$0
15	Headwall Retrofit	EA	0	\$12,500	\$0
16	Drainage Inlet	EA	0	\$2,650	\$0
17	Drainage Inlet and Retrofit Pipe	EA	0	\$5,000	\$0
18	Grassy Swale	EA	0	\$5,000	\$0
19	Stormwater Quality Basin	EA	0	\$25,000	\$0
20	Outfall	LS	0	\$9,000	\$0
21	Culvert - 12'x5' Arch Culvert - Oak Tree near new Lake	EA	0	\$450,000	\$0
22	Culvert - 12'x5' Arch Culvert and 48" Culvert - Oak Tree near Regional Park *	EA	0	\$525,000	\$0
23	NID Box Culvert Expansion	EA	0	\$75,000	\$0
24	Culvert - 12'x5.5' Arch Culvert - North South Collector near State Route 193	EA	0	\$400,000	\$0
25	Culvert - 30" Culvert - Oak Tree Lane and South Ingram Slough East of No. So. Collector	EA	0	\$100,000	\$0
26	Wetland Mitigation - Oak Tree Lane Overcrossing **	EA	0	\$300,000	\$0
27	CLOMR and LOMR - Auburn Ravine next to Ferrari Ranch Road	JOB	0	\$80,000	\$0
28	Retrofit Lake outlet and berm***	EA	1	\$1,000,000	\$1,000,000
29	Grading	CY	0	\$4	\$0
30	Auburn Ravine Bank Stabilization	SF	0	\$1	\$0
31	Auburn Ravine Hydroseed	SF	0	\$0	\$0
32	Auburn Ravine Armoring	SF	0	\$15	\$0
33	Auburn Ravine Tree Planting	EA	0	\$100	\$0
	Construction Total:				\$1,000,000

Contingency Based upon Hard Costs (15/): \* Includes traffic control and demolition of existing culverts.

\$150,000 \*\* Estimated costs, actual cost will be developed in conjunction Soft Costs Contingency (17/): \$170,000 with environmental consultant.

**TOTAL DRAINAGE** \$1,320,000

<sup>\*\*\*</sup> Further consultation will be required with geotechnical and environmental consultants to determine actual cost to retrofit lake outfall, berm and wetland permit.

## APPENDIX 15 Lincoln Village 1 Specific Plan Infrastructure Finance Plan Wastewater PFE Costs



\$421,900



Enginee	er's Opinion of Costs									
	Village 1 - Sanitary Sewer									
	edit Summary									
Item #	Description	Unit	Quantity	Unit Price	Amount					
-	·									
Sanita	ry Sewer System									
Village 1										
1	10" SS Backbone Line	LF	0	\$65	\$0					
2	12" SS Backbone Line	LF	0	\$75	\$0					
3	15" SS Backbone Line	LF	0	\$100	\$0					
4	18" SS Backbone Line	LF	0	\$120	\$0					
5	24" SS Trunk Line	LF	680	\$165	\$112,200					
6	12" SS Backbone Line (Required Improvement)	LF	680	-\$75	-\$51,000					
7	30" SS Trunk Line	LF	2615	\$200	\$523,000					
8	12" SS Backbone Line (Required Improvement)	LF	2615	-\$75	-\$196,200					
9	Standard SSMH (MH/400')	EA	0	\$4,250	\$0					
10	Trunk SSMH (MH/400')	EA	8	\$8,500	\$68,000					
11	Standard SSMH (MH/400' - Required Improvement)	EA	8	-\$4,250	-\$34,100					
12	Sanitary Sewer Lift Station	EA	0	\$300,000	\$0					
13	Connection to Existing Transmission Main	EA	0	\$22,500	\$0					
14	Bore and Jack (Across Auburn Ravine)	LF	0	\$900	\$0					

Construction Total:

Contingency Based upon Hard Costs (15/): \$63,200 Soft Costs Contingency (17/): \$71,700

TOTAL SANITARY SEWER \$556,800

\$42,500

-\$21,300

\$274,300

\$0

\$0

\$0



10

11

12

13

14

Trunk SSMH (MH/400')

Sanitary Sewer Lift Station

(MH/400' - Required Improvement)

Connection to Existing Transmission Main

Construction Total:

Bore and Jack (Across Auburn Ravine)

Standard SSMH

Engineer's Opinion of Costs Village 1 - Sanitary Sewer PFE Credit Phase 1 Summary						
Item #	Description	Unit	Quantity	Unit Price	Amount	
Sanitary 6	Sewer System					
Village 1		 I				
1	10" SS Backbone Line	LF	0	\$65	\$0	
2	12" SS Backbone Line	LF	0	\$75	\$0	
3	15" SS Backbone Line	LF	0	\$100	\$0	
4	18" SS Backbone Line	LF	0	\$120	\$0	
5	24" SS Trunk Line	LF	0	\$165	\$0	
6	12" SS Backbone Line (Required Improvement)	LF	0	-\$75	\$0	
7	30" SS Trunk Line	LF	2025	\$200	\$405,000	
8	12" SS Backbone Line (Required Improvement)	LF	2025	-\$75	-\$151,900	
9	Standard SSMH (MH/400')	EA	0	\$4,250	ŚC	

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LF

Contingency Based upon Hard Costs (15/): \$41,100 Soft Costs Contingency (17/): \$46,600

5

5

0

0

0

TOTAL SANITARY SEWER \$362,000

\$8,500

-\$4,250

\$300,000

\$22,500

\$900



Engineer's Opinion of Costs Village 1 - Sanitary Sewer

PFE Credit Phase 1 Ferrari Ranch Road 1 (V1S1)

Item #	Description	Unit	Quantity	Unit Price	Amount
Sanitary :	Sewer System				
Village 1	-				
1	10" SS Backbone Line	LF	0	\$65	\$0
2	12" SS Backbone Line	LF	0	\$75	\$0
3	15" SS Backbone Line	LF	0	\$100	\$0
4	18" SS Backbone Line	LF	0	\$120	\$0
5	24" SS Trunk Line	LF	0	\$165	\$0
6	12" SS Backbone Line (Required Improvement)	LF	0	\$200	\$0
7	30" SS Trunk Line	LF	2025	\$200	\$405,000
8	12" SS Backbone Line (Required Improvement)	LF	2025	-\$75	-\$151,900
9	Standard SSMH (MH/400')	EA	0	\$4,250	\$0
10	Trunk SSMH (MH/400')	EA	5	\$8,500	\$42,500
11	Standard SSMH (MH/400' - Required Improvement)	EA	5	-\$4,250	-\$21,300
12	Sanitary Sewer Lift Station	EA	0	\$300,000	\$0
13	Connection to Existing Transmission Main	EA	0	\$22,500	\$0
14	Bore and Jack (Across Auburn Ravine)	LF	0	\$900	\$0
	Construction Total:		-		\$274,300

Contingency Based upon Hard Costs (15/): \$41,100

Soft Costs Contingency (17/): \$46,600

TOTAL SANITARY SEWER \$362,000

-\$12,800

\$0

\$0

\$0 \$147,600



11

12

13

14

(MH/400' - Required Improvement)

Connection to Existing Transmission Main

**Construction Total:** 

Bore and Jack (Across Auburn Ravine)

Sanitary Sewer Lift Station

Engineer's Opinion of Costs Village 1 - Sanitary Sewer PFE Credit Phase 2 Summary						
Item #	Description	Unit	Quantity	Unit Price	Amount	
	2 October					
	y Sewer System					
Village 1		<u>[</u>				
1	10" SS Backbone Line	LF	0	\$65	\$0	
2	12" SS Backbone Line	LF	0	\$75	\$0	
3	15" SS Backbone Line	LF	0	\$100		
4	18" SS Backbone Line	LF	0	\$120	\$0	
5	24" SS Trunk Line	LF	680	\$165	\$112,200	
6	12" SS Backbone Line (Required Improvement)	LF	680	-\$75	-\$51,000	
7	30" SS Trunk Line	LF	590	\$200	\$118,000	
8	12" SS Backbone Line (Required Improvement)	LF	590	-\$75	-\$44,300	
9	Standard SSMH (MH/400')	EA	0	\$4,250	\$0	
10	Trunk SSMH (MH/400')	EA	3	\$8,500	\$25,500	
11	Standard SSMH	EΔ	2	\$4.250	\$12.900	

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LF

Contingency Based upon Hard Costs (15/): \$22,100 Soft Costs Contingency (17/): \$25,100

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TOTAL SANITARY SEWER \$194,800

-\$4,250

\$300,000

\$22,500

\$900



Engineer's Opinion of Costs Village 1 - Sanitary Sewer

PFE Credit Phase 2 Ferrari Ranch Road 2 (V1S2)

Item #	Description	Unit	Quantity	Unit Price	Amount
Sanitary	Sewer System				
Village 1					
1	10" SS Backbone Line	LF	0	\$65	\$0
2	12" SS Backbone Line	LF	0	\$75	\$0
3	15" SS Backbone Line	LF	0	\$100	\$0
4	18" SS Backbone Line	LF	0	\$120	\$0
5	24" SS Trunk Line	LF	0	\$165	\$0
6	12" SS Backbone Line (Required Improvement)	LF	0	-\$75	\$0
7	30" SS Trunk Line	LF	590	\$200	\$118,000
8	12" SS Backbone Line (Required Improvement)	LF	590	-\$75	-\$44,300
9	Standard SSMH (MH/400')	EA	0	\$4,250	\$0
10	Trunk SSMH (MH/400')	EA	1	\$8,500	\$8,500
11	Standard SSMH (MH/400' - Required Improvement)	EA	1	-\$4,250	-\$4,300
12	Sanitary Sewer Lift Station	EA	0	\$300,000	\$0
13	Connection to Existing Transmission Main	EA	0	\$22,500	\$0
14	Bore and Jack (Across Auburn Ravine)	LF	0	\$900	\$0
	Construction Total:				\$77,900

Contingency Based upon Hard Costs (15/): \$11,600

Soft Costs Contingency (17/): \$13,300

TOTAL SANITARY SEWER \$102,800



Engineer's Opinion of Costs Village 1 - Sanitary Sewer

PFE Credit Phase 2 Ferrari Ranch Road 3 (V1S2)

Item #	Description	Unit	Quantity	Unit Price	Amount
Sanitary	Sewer System				
Village 1					
1	10" SS Backbone Line	LF	0	\$65	\$0
2	12" SS Backbone Line	LF	0	\$75	\$0
3	15" SS Backbone Line	LF	0	\$100	\$0
4	18" SS Backbone Line	LF	0	\$120	\$0
5	24" SS Trunk Line	LF	680	\$165	\$112,200
6	12" SS Backbone Line (Required Improvement)	LF	680	-\$75	-\$51,000
7	30" SS Trunk Line	LF	0	\$200	\$0
8	12" SS Backbone Line (Required Improvement)	LF	0	-\$75	\$0
9	Standard SSMH (MH/400')	EA	0	\$4,250	\$0
10	Trunk SSMH (MH/400')	EA	2	\$8,500	\$17,000
11	Standard SSMH (MH/400' - Required Improvement)	EA	2	-\$4,250	-\$8,500
12	Sanitary Sewer Lift Station	EA	0	\$300,000	\$0
13	Connection to Existing Transmission Main	EA	0	\$22,500	\$0
14	Bore and Jack (Across Auburn Ravine)	LF	0	\$900	\$0
	Construction Total:	_	_		\$69,700

Contingency Based upon Hard Costs (15/): \$10,500

Soft Costs Contingency (17/): \$11,800

TOTAL SANITARY SEWER \$92,000



<b>Engineer's</b>	Engineer's Opinion of Costs						
Village 1 - Sanitary Sewer							
PFE Summ							
Item #	Description	Unit	Quantity	Unit Price	Amount		
	·						
Sanitary	Sewer System						
Village 1							
1	10" SS Backbone Line	LF	0	\$65	\$0		
2	12" SS Backbone Line	LF	0	\$75	\$0		
3	15" SS Backbone Line	LF	0	\$100	\$0		
4	18" SS Backbone Line	LF	0	\$120	\$0		
5	24" SS Trunk Line	LF	1790	\$165	\$295,400		
7	30" SS Trunk Line	LF	0	\$200	\$0		
9	Standard SSMH (MH/400')	EA	0	\$4,250	\$0		
10	Trunk SSMH (MH/400')	EA	4	\$8,500	\$34,000		
12	Sanitary Sewer Lift Station	EA	0	\$300,000	\$0		
13	Connection to Existing Transmission Main	EA	0	\$22,500	\$0		
14	Bore and Jack (Across Auburn Ravine)	LF	0	\$900	\$0		
	Construction Total: \$329,400						

Contingency Based upon Hard Costs (15/): \$49,400

Soft Costs Contingency (17/): \$56,000

TOTAL SANITARY SEWER \$434,800